

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
City Public Service Board

AUTHORIZING THE OPERATION OF  
Calaveras Lake Plant  
Electric Services

LOCATED AT  
Bexar County, Texas  
Latitude 29° 18' 25" Longitude 98° 19' 22"  
Regulated Entity Number: RN100217975

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No:       O8       Issuance Date: \_\_\_\_\_

\_\_\_\_\_  
For the Commission

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## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
  - E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ, DDDDD, and UUUUU as identified in the attached Applicable Requirements Summary table are subject to

30 TAC Chapter 113, Subchapter C, § 113.1090, § 113.1130, and § 113.1300 respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

- F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 2 (Emissions Banking and Trading of Allowances) Requirements for an electric generating facility authorized under 30 TAC Chapter 116, Subchapter I:
  - (i) Title 30 TAC § 101.332 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.333 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.334 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.335 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.336 (relating to Emission Monitoring and Compliance Demonstration and Reporting)
  - (vi) The terms and conditions by which the emission limits are established to meet the quantity of allowances for the electric generating facility are applicable requirements of this permit
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
  - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
  - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed either before or after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111,

Subchapter A, Division 1 , shall not exceed 20% opacity averaged over a six minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
  - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
  - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
  - (3) Records of all observations shall be maintained.
  - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance

from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

- (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
  - (2) Records of all observations shall be maintained.
  - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
  - (4) Compliance Certification:
    - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
    - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).



- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- G. Permit holder shall comply with the following requirements for steam generators:
  - (i) Emissions from any oil or gas fuel-fired steam generator with a heat input capacity greater than 2,500 MMBtu per hour may not exceed 0.1 pound of TSP per MMBtu of heat input, averaged over a two-hour period, as required in 30 TAC § 111.153(c) (relating to Emissions Limits for Steam Generators).
- H. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
  - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
  - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
  - (iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)
  - (iv) Title 30 TAC § 111.211 (relating to Exception for Prescribed Burn)
  - (v) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)
  - (vi) Title 30 TAC § 111.215 (relating to TCEQ Executive Director Approval of Otherwise Prohibited Outdoor Burning)
  - (vii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
  - (viii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed no more than 25,000 gallons of gasoline in any calendar month after December 31, 2004, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
    - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
    - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)

- (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
  - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
- 5. The permit holder shall comply with the following 30 TAC Chapter 115, Subchapter F requirements (relating to Cutback Asphalt Requirements):
  - A. Title 30 TAC § 115.516 (relating to Recordkeeping Requirements)
  - B. Title 30 TAC § 115.517(1) (relating to Exemptions), for long-life stockpiling
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 7. For the nonmetallic mineral processing operations specified in 40 CFR Part 60, Subpart OOO, the permit holder shall comply with the following requirements:
  - A. Title 40 CFR § 60.670(f) (relating to Applicability and Designation of Affected Facility), for Table 1 for Subpart A
  - B. Title 40 CFR § 60.673(a) - (b) (relating to Reconstruction)
  - C. Title 40 CFR § 60.676(h) (relating to Reporting and Recordkeeping)
- 8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 9. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the

permit holder shall submit a revision application to codify the appropriate requirements in the permit.

### **Additional Monitoring Requirements**

10. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
  - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
  - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
  - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
  - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
  - E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **New Source Review Authorization Requirements**

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
15. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
- A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
  - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
  - C. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application.
  - D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

### **Compliance Requirements**

16. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
17. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
- A. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9300 for electric utilities in East and Central Texas.
18. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115

- (ii) Title 30 TAC Chapter 117
  - (iii) If applicable, offsets for Title 30 TAC Chapter 116
  - (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
  - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
  - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
  - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
  - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

#### **Protection of Stratospheric Ozone**

19. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
  - B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.
  - C. The permit holder shall comply with 40 CFR Part 82, Subpart F related to the disposal requirements for appliances using Class I or Class II (ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.
  - D. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

### **Temporary Fuel Shortages (30 TAC § 112.15)**

20. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
- A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
  - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
  - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
  - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

### **Permit Location**

21. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

22. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

### **Acid Rain Permit Requirements**

23. For units P-1A OWS1 and P-2 OWS2 (identified in the Certificate of Representation as units 1 and 2) located at the affected source identified by ORIS/Facility code 3611; units BOILER 1 JTD1 and BOILER 2 JTD2 (identified in the Certificate of Representation as units 1 and 2) located at the affected source identified by ORIS/Facility code 6181; and units P-5 JKS1 and P-6 (identified in the Certificate of Representation as units \*\*1 and \*\*2) located at the affected source identified by ORIS/Facility Code 7097, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.
- A. General Requirements
    - (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.
    - (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.

- (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
- (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.
- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

**B. Monitoring Requirements**

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO<sub>2</sub> and NO<sub>x</sub> under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

**C. SO<sub>2</sub> emissions requirements**

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO<sub>2</sub>.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO<sub>2</sub> for the previous calendar year.
- (iii) Each ton of SO<sub>2</sub> emitted in excess of the acid rain emissions limitations for SO<sub>2</sub> shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO<sub>2</sub> emissions requirements as follows:
  - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or
  - (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).

- (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.
- (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.
- (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO<sub>2</sub> in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO<sub>x</sub> Emission Requirements

- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO<sub>x</sub> under 40 CFR Part 76.

E. Excess emissions requirements for SO<sub>2</sub> and NO<sub>x</sub>.

- (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
  - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
  - (2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.
  - (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year



period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.
  - (4) Copies of all documents used to complete an acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.
- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
- (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.
- (vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.

H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:

- (i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
  - (ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.
  - (iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.
  - (iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
  - (v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.
- I. The number of SO<sub>2</sub> allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

#### **Cross-State Air Pollution Rule (CSAPR) Trading Program Requirements**

24. For units P-1A OWS1 and P-2 OWS2 (identified in the Certificate of Representation as units 1 and 2), located at the site identified by Plant code/ORIS/Facility code 3611; units BOILER 1 JTD1 and BOILER 2 JTD2 (identified in the Certificate of Representation as units 1 and 2) located at the affected source identified by Plant code/ORIS/Facility code 6181; and units P 5 JKS1 and P 6 (identified in the Certificate of Representation as units \*\*1 and \*\*2) located at the affected source identified by ORIS/Facility Code 7097, the designated representative and the owner or operator, as applicable, shall comply with the following CSAPR requirements. Until approval of a Texas CSAPR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97.

##### **A. General Requirements**

- (i) The owners and operators of the CSAPR NO<sub>x</sub> and the CSAPR SO<sub>2</sub> source shall operate the source and the unit in compliance with the requirements of the applicable CSAPR Trading Programs and all other applicable State and federal requirements.
- (ii) The owners and operators of the CSAPR NO<sub>x</sub> and the CSAPR SO<sub>2</sub> source shall comply with the requirements of 40 CFR Part 97, Subpart AAAAA for CSAPR NO<sub>x</sub> Annual Trading Program, Subpart DDDDD for CSAPR SO<sub>2</sub> Group 2 Trading Program, Subpart EEEEE for CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program, and with the General Terms and Conditions of the Federal Operating Permit (FOP) that incorporates the CSAPR requirements.

##### **B. Description of CSAPR Monitoring Provisions**

- (i) The CSAPR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following paragraph(s). These unit(s) are subject to

the requirements for the CSAPR NO<sub>x</sub> Annual Trading Program, CSAPR SO<sub>2</sub> Group 2 Trading Program, and CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.

- (1) For units BOILER 1 JTD1, BOILER 2 JTD2, P 5 JKS1, and P 6, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B and Subpart H for SO<sub>2</sub>, NO<sub>x</sub>, and heat input.
  - (2) For units P-1A OWS1 and P-2 OWS2, the owners and operators shall comply with the continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart H for NO<sub>x</sub>, and with the excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D for SO<sub>2</sub> and heat input.
- (ii) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§ 97.430 through 97.435 (CSAPR NO<sub>x</sub> Annual Trading Program), §§ 97.730 through 97.735 (CSAPR SO<sub>2</sub> Group 2 Trading Program), and §§ 97.830 through 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.
  - (iii) Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§ 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources>.
  - (iv) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR § 75.66 and § 97.435 (CSAPR NO<sub>x</sub> Annual Trading Program), § 97.735 (CSAPR SO<sub>2</sub> Group 2 Trading Program), and/or § 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
  - (v) Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§ 97.430 through 97.434 (CSAPR NO<sub>x</sub> Annual Trading Program), §§ 97.730 through 97.734 (CSAPR SO<sub>2</sub> Group 2 Trading Program), and/or §§ 97.830 through 97.834 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR § 75.66 and § 97.435 (CSAPR NO<sub>x</sub> Annual Trading Program), § 97.735 (CSAPR SO<sub>2</sub> Group 2 Trading Program), and/or § 97.835 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
  - (vi) The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR §§ 97.430 through 97.434 (CSAPR NO<sub>x</sub> Annual Trading Program), §§ 97.730 through 97.734 (CSAPR SO<sub>2</sub> Group 2 Trading Program),

and §§ 97.830 through 97.834 (CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program), and therefore procedures for minor permit revisions, in accordance with 30 TAC § 122.217, may be used to add or change this unit's monitoring system description.

25. CSAPR NO<sub>x</sub> Annual Trading Program Requirements (40 CFR § 97.406)

A. Designated representative requirements

- (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.413 through 97.418.

B. Emissions monitoring, reporting, and recordkeeping requirements

- (i) The owners and operators, and the designated representative, of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.431 (initial monitoring system certification and recertification procedures), § 97.432 (monitoring system out-of-control periods), § 97.433 (notifications concerning monitoring), § 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (ii) The emissions data determined in accordance with 40 CFR §§ 97.430 through 97.435 and any other credible evidence shall be used to calculate allocations of CSAPR NO<sub>x</sub> Annual allowances under 40 CFR §§ 97.411(a)(2) and (b) and § 97.412 and to determine compliance with the CSAPR NO<sub>x</sub> Annual emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. NO<sub>x</sub> emissions requirements

- (i) CSAPR NO<sub>x</sub> Annual emissions limitation
  - (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Annual allowances available for deduction for such control period under 40 CFR § 97.424(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Annual units at the source.
  - (2) If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Annual units at a CSAPR NO<sub>x</sub> Annual source are in excess of the CSAPR NO<sub>x</sub> Annual emissions limitation set forth in paragraph C.(i)(1) above, then:

- (a) The owners and operators of the source and each CSAPR NO<sub>x</sub> Annual unit at the source shall hold the CSAPR NO<sub>x</sub> Annual allowances required for deduction under 40 CFR § 97.424(d); and
- (b) The owners and operators of the source and each CSAPR NO<sub>x</sub> Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(ii) CSAPR NO<sub>x</sub> Annual assurance provisions

- (1) If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO<sub>x</sub> Annual allowances available for deduction for such control period under 40 CFR § 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.425(b), of multiplying -
  - (a) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (b) The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the state for such control period exceed the state assurance level.
- (2) The owners and operators shall hold the CSAPR NO<sub>x</sub> Annual allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (3) Total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the state NO<sub>x</sub> Annual trading budget under 40 CFR § 97.410(a) and the state's variability limit under 40 CFR § 97.410(b).

- (4) It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Annual units at CSAPR NO<sub>x</sub> Annual sources in the state during a control period exceeds the common designated representative's assurance level.
- (5) To the extent the owners and operators fail to hold CSAPR NO<sub>x</sub> Annual allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,
  - (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
  - (b) Each CSAPR NO<sub>x</sub> Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.
- (iii) Compliance periods
  - (1) A CSAPR NO<sub>x</sub> Annual unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.430(b) and for each control period thereafter.
  - (2) A CSAPR NO<sub>x</sub> Annual unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.430(b) and for each control period thereafter.
- (iv) Vintage of allowances held for compliance
  - (1) A CSAPR NO<sub>x</sub> Annual allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Annual allowance that was allocated for such control period or a control period in a prior year.
  - (2) A CSAPR NO<sub>x</sub> Annual allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (v) Allowance Management System requirements. Each CSAPR NO<sub>x</sub> Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.

- (vi) Limited authorization. A CSAPR NO<sub>x</sub> Annual allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
  - (1) Such authorization shall only be used in accordance with the CSAPR NO<sub>x</sub> Annual Trading Program; and
  - (2) Notwithstanding any other provision of 40 CFR Part 97, Subpart AAAAA, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (vii) Property right. A CSAPR NO<sub>x</sub> Annual allowance does not constitute a property right.

D. FOP revision requirements

- (i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.
- (ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore, the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

- (i) Unless otherwise provided, the owners and operators of each CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  - (1) The certificate of representation under 40 CFR § 97.416 for the designated representative for the source and each CSAPR NO<sub>x</sub> Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.416 changing the designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.

- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO<sub>x</sub> Annual Trading Program.
    - (ii) The designated representative of a CSAPR NO<sub>x</sub> Annual source and each CSAPR NO<sub>x</sub> Annual unit at the source shall make all submissions required under the CSAPR NO<sub>x</sub> Annual Trading Program, except as provided in 40 CFR § 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.
  - F. Liability
    - (i) Any provision of the CSAPR NO<sub>x</sub> Annual Trading Program that applies to a CSAPR NO<sub>x</sub> Annual source or the designated representative of a CSAPR NO<sub>x</sub> Annual source shall also apply to the owners and operators of such source and of the CSAPR NO<sub>x</sub> Annual units at the source.
    - (ii) Any provision of the CSAPR NO<sub>x</sub> Annual Trading Program that applies to a CSAPR NO<sub>x</sub> Annual unit or the designated representative of a CSAPR NO<sub>x</sub> Annual unit shall also apply to the owners and operators of such unit.
  - G. Effect on other authorities
    - (i) No provision of the CSAPR NO<sub>x</sub> Annual Trading Program or exemption under 40 CFR § 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO<sub>x</sub> Annual source or CSAPR NO<sub>x</sub> Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.
26. CSAPR SO<sub>2</sub> Group 2 Trading Program Requirements (40 CFR § 97.706)
- A. Designated representative requirements
    - (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.713 through 97.718.
  - B. Emissions monitoring, reporting, and recordkeeping requirements
    - (i) The owners and operators, and the designated representative, of each CSAPR SO<sub>2</sub> Group 2 source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.730 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.731 (initial monitoring system certification and recertification procedures), § 97.732 (monitoring system out-of-control periods), § 97.733 (notifications concerning monitoring), § 97.734 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.735 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
    - (ii) The emissions data determined in accordance with 40 CFR § 97.730 through § 97.735 and any other credible evidence shall be used to calculate allocations of



CSAPR SO<sub>2</sub> Group 2 allowances under 40 CFR §§ 97.711(a)(2) and (b) and § 97.712 and to determine compliance with the CSAPR SO<sub>2</sub> Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.730 through 97.735 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

C. SO<sub>2</sub> emissions requirements

(i) CSAPR SO<sub>2</sub> Group 2 emissions limitation

- (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO<sub>2</sub> Group 2 source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall hold, in the source's compliance account, CSAPR SO<sub>2</sub> Group 2 allowances available for deduction for such control period under 40 CFR § 97.724(a) in an amount not less than the tons of total SO<sub>2</sub> emissions for such control period from all CSAPR SO<sub>2</sub> Group 2 units at the source.
- (2) If total SO<sub>2</sub> emissions during a control period in a given year from the CSAPR SO<sub>2</sub> Group 2 units at a CSAPR SO<sub>2</sub> Group 2 source are in excess of the CSAPR SO<sub>2</sub> Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:
  - (a) The owners and operators of the source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall hold the CSAPR SO<sub>2</sub> Group 2 allowances required for deduction under 40 CFR § 97.724(d); and
  - (b) The owners and operators of the source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart DDDDD and the Clean Air Act.

(ii) CSAPR SO<sub>2</sub> Group 2 assurance provisions

- (1) If total SO<sub>2</sub> emissions during a control period in a given year from all CSAPR SO<sub>2</sub> Group 2 units at CSAPR SO<sub>2</sub> Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO<sub>2</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO<sub>2</sub> Group 2 allowances available for deduction for such control period under 40 CFR § 97.725(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.725(b), of multiplying -

- (a) The quotient of the amount by which the common designated representative's share of such SO<sub>2</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO<sub>2</sub> emissions exceeds the respective common designated representative's assurance level; and
  - (b) The amount by which total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 2 units at CSAPR SO<sub>2</sub> Group 2 sources in the state for such control period exceed the state assurance level.
- (2) The owners and operators shall hold the CSAPR SO<sub>2</sub> Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (3) Total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 2 units at CSAPR SO<sub>2</sub> Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total SO<sub>2</sub> emissions exceed the sum, for such control period, of the state SO<sub>2</sub> Group 2 trading budget under 40 CFR § 97.710(a) and the state's variability limit under 40 CFR § 97.710(b).
- (4) It shall not be a violation of 40 CFR Part 97, Subpart DDDDD or of the Clean Air Act if total SO<sub>2</sub> emissions from all CSAPR SO<sub>2</sub> Group 2 units at CSAPR SO<sub>2</sub> Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO<sub>2</sub> emissions from the CSAPR SO<sub>2</sub> Group 2 units at CSAPR SO<sub>2</sub> Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.
- (5) To the extent the owners and operators fail to hold CSAPR SO<sub>2</sub> Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,
  - (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
  - (b) Each CSAPR SO<sub>2</sub> Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart DDDDD and the Clean Air Act.
- (iii) Compliance periods
  - (1) A CSAPR SO<sub>2</sub> Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor

certification requirements under 40 CFR § 97.730(b) and for each control period thereafter.

- (2) A CSAPR SO<sub>2</sub> Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.730(b) and for each control period thereafter.

(iv) Vintage of allowances held for compliance

- (1) A CSAPR SO<sub>2</sub> Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR SO<sub>2</sub> Group 2 allowance that was allocated for such control period or a control period in a prior year.
- (2) A CSAPR SO<sub>2</sub> Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR SO<sub>2</sub> Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(v) Allowance Management System requirements. Each CSAPR SO<sub>2</sub> Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart DDDDD.

(vi) Limited authorization. A CSAPR SO<sub>2</sub> Group 2 allowance is a limited authorization to emit one ton of SO<sub>2</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:

- (1) Such authorization shall only be used in accordance with the CSAPR SO<sub>2</sub> Group 2 Trading Program; and
- (2) Notwithstanding any other provision of 40 CFR Part 97, Subpart DDDDD, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(vii) Property right. A CSAPR SO<sub>2</sub> Group 2 allowance does not constitute a property right.

D. FOP revision requirements

- (i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO<sub>2</sub> Group 2 allowances in accordance with 40 CFR Part 97, Subpart DDDDD.
- (ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.730 through 97.735, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system

(pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

- (i) Unless otherwise provided, the owners and operators of each CSAPR SO<sub>2</sub> Group 2 source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  - (1) The certificate of representation under 40 CFR § 97.716 for the designated representative for the source and each CSAPR SO<sub>2</sub> Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR § 97.716 changing the designated representative.
  - (2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart DDDDD.
  - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO<sub>2</sub> Group 2 Trading Program.
- (ii) The designated representative of a CSAPR SO<sub>2</sub> Group 2 source and each CSAPR SO<sub>2</sub> Group 2 unit at the source shall make all submissions required under the CSAPR SO<sub>2</sub> Group 2 Trading Program, except as provided in 40 CFR § 97.718. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

- (i) Any provision of the CSAPR SO<sub>2</sub> Group 2 Trading Program that applies to a CSAPR SO<sub>2</sub> Group 2 source or the designated representative of a CSAPR SO<sub>2</sub> Group 2 source shall also apply to the owners and operators of such source and of the CSAPR SO<sub>2</sub> Group 2 units at the source.
- (ii) Any provision of the CSAPR SO<sub>2</sub> Group 2 Trading Program that applies to a CSAPR SO<sub>2</sub> Group 2 unit or the designated representative of a CSAPR SO<sub>2</sub> Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

- (i) No provision of the CSAPR SO<sub>2</sub> Group 2 Trading Program or exemption under 40 CFR § 97.705 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO<sub>2</sub> Group 2 source or CSAPR SO<sub>2</sub> Group 2 unit from compliance with any other provision of the

applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

27. CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program Requirements (40 CFR § 97.806)
- A. Designated representative requirements
- (i) The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§ 97.813 through 97.818.
- B. Emissions monitoring, reporting, and recordkeeping requirements
- (i) The owners and operators, and the designated representative, of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR § 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), § 97.831 (initial monitoring system certification and recertification procedures), § 97.832 (monitoring system out-of-control periods), § 97.833 (notifications concerning monitoring), § 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and § 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (ii) The emissions data determined in accordance with 40 CFR § 97.830 through § 97.835 and any other credible evidence shall be used to calculate allocations of CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances under 40 CFR §§ 97.811 (a)(2) and (b) and § 97.812 and to determine compliance with the CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation and assurance provisions under paragraph C. below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§ 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.
- C. NO<sub>x</sub> emissions requirements
- (i) CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation
- (1) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.824 (a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
- (2) If total NO<sub>x</sub> emissions during a control period in a given year from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at a CSAPR NO<sub>x</sub> Ozone Season Group 2 source are in excess of the CSAPR NO<sub>x</sub> Ozone Season Group 2 emissions limitation set forth in paragraph C.(i)(1) above, then:

- (a) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall hold the CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required for deduction under 40 CFR § 97.824 (d); and
  - (b) The owners and operators of the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.
- (ii) CSAPR NO<sub>x</sub> Ozone Season Group 2 assurance provisions
  - (1) If total NO<sub>x</sub> emissions during a control period in a given year from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR § 97.825 (a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR § 97.825 (b), of multiplying -
    - (a) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and
    - (b) The amount by which total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.
  - (2) The owners and operators shall hold the CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances required under paragraph C.(ii)(1) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
  - (3) Total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the state

NO<sub>x</sub> Ozone Season Group 2 trading budget under 40 CFR § 97.810 (a) and the state's variability limit under 40 CFR § 97.810 (b).

- (4) It shall not be a violation of 40 CFR Part 97, Subpart EEEEE or of the Clean Air Act if total NO<sub>x</sub> emissions from all CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at CSAPR NO<sub>x</sub> Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.
- (5) To the extent the owners and operators fail to hold CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs C.(ii)(1) through (3) above,
  - (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
  - (b) Each CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs C.(ii)(1) through (3) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart EEEEE and the Clean Air Act.

(iii) Compliance periods

- (1) A CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(i) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.
- (2) A CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall be subject to the requirements under paragraph C.(ii) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 97.830 (b) and for each control period thereafter.

(iv) Vintage of allowances held for compliance

- (1) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraph C.(i)(1) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.
- (2) A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs C.(i)(2)(a) and (ii)(1) through (3) above for a control period in a given year must be a CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

- (v) Allowance Management System requirements. Each CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart EEEEE.
- (vi) Limited authorization. A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO<sub>x</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:
  - (1) Such authorization shall only be used in accordance with the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program; and
  - (2) Notwithstanding any other provision of 40 CFR Part 97, Subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (vii) Property right. A CSAPR NO<sub>x</sub> Ozone Season Group 2 allowance does not constitute a property right.

D. FOP revision requirements

- (i) No FOP revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO<sub>x</sub> Ozone Season Group 2 allowances in accordance with 40 CFR Part 97, Subpart EEEEE.
- (ii) This FOP incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§ 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, subpart H), an excepted monitoring system (pursuant to 40 CFR Part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR § 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, subpart E). Therefore the Description of CSAPR Monitoring Provisions for CSAPR subject unit(s) may be added to, or changed, in this FOP using procedures for minor permit revisions in accordance with 30 TAC § 122.217.

E. Additional recordkeeping and reporting requirements

- (i) Unless otherwise provided, the owners and operators of each CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  - (1) The certificate of representation under 40 CFR § 97.816 for the designated representative for the source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new



certificate of representation under 40 CFR § 97.816 changing the designated representative.

- (2) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart EEEEE.
  - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program.
- (ii) The designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source and each CSAPR NO<sub>x</sub> Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program, except as provided in 40 CFR § 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under 30 TAC § 122.165.

F. Liability

- (i) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the CSAPR NO<sub>x</sub> Ozone Season Group 2 units at the source.
- (ii) Any provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program that applies to a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit or the designated representative of a CSAPR NO<sub>x</sub> Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

G. Effect on other authorities

- (i) No provision of the CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program or exemption under 40 CFR § 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO<sub>x</sub> Ozone Season Group 2 source or CSAPR NO<sub>x</sub> Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

**Applicable Requirements Summary**

**Unit Summary ..... 34**

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R-112-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R73020-1	30 TAC Chapter 117, Subchapter E, Division 1	No changing attributes.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-1	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Solid fossil fuel.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-2	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Gaseous fossil fuel.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-3	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Gaseous fossil fuel., D-Series Fuel Type #2 = Solid fossil fuel.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-4	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Solid fossil fuel., D-Series Fuel Type #2 = Nonfossil fuel.
BOILER 1 JTD1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63UUUUU-1	40 CFR Part 63, Subpart UUUUU	No changing attributes.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R-112-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R73020-1	30 TAC Chapter 117, Subchapter E, Division 1	Ammonia Use = Ammonia injection is not used to control NO <sub>x</sub> emissions.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R73020-2	30 TAC Chapter 117, Subchapter E, Division 1	Ammonia Use = Ammonia injection is used to control NO <sub>x</sub> emissions., NH3 Emission Limitation = Title 30 TAC § 117.3010(2)., Ammonia Monitoring = A continuous emissions monitoring system is used to monitor ammonia emissions.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-1	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Solid fossil fuel.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-2	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Gaseous fossil fuel.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-3	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Gaseous fossil fuel., D-Series Fuel Type #2 = Solid fossil fuel.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60D-4	40 CFR Part 60, Subpart D	D-Series Fuel Type #1 = Solid fossil fuel., D-Series Fuel Type #2 = Nonfossil fuel.
BOILER 2 JTD2	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63UUUUU-1	40 CFR Part 63, Subpart UUUUU	No changing attributes.
E-3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EMGEN-1	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
EMGEN-1	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMGEN-2	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
EMGEN-2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMGEN-DAM	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EMGEN-GATE	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
EMGEN-GATE	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
ETH-UNLDG	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
ETH-UST	STORAGE TANKS/VESSELS	N/A	R115-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
FUELOILLDG	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
FUELOILUNL	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
G-1A	STORAGE TANKS/VESSELS	N/A	R-5112-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-AUXB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	A-1, A-2	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
GRP-AUXB	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	A-1, A-2	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-COAL1	COAL PREPARATION PLANTS	DC-1, DC-101, DC-14, DC-2, DC-201, DC-3, DC-4A/4B, DC-5, DC-6, DC-7, DC-8, DC-CCG016, PX-C01A/B	60Y-1	40 CFR Part 60, Subpart Y	No changing attributes.
GRP-COAL2	COAL PREPARATION PLANTS	CF-1, CF-16, CF-2, CF-3, CF-4A, CF-5, CF-6, CF-7, CF-8, CF-D21, CF-D6, CF-D8, F-AREA1, F-AREA2, F-AREA3, PX-C02, PX-C04, PX-C16/C17	60Y-1	40 CFR Part 60, Subpart Y	No changing attributes.
GRP-GENOWS	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	EMGEN-OWS1, EMGEN-OWS2, EMGEN-OWS3, EMGEN-OWS4	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRPHROWS1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	HTR-A-OWS1, HTR-B-OWS1, HTR-C-OWS1, HTR-D-OWS1, HTR-E-OWS1, HTR-F-OWS1	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-LIME2	NON-METALLIC MINERAL PROCESSING PLANTS	LDC-10, LDC-13	60000-1	40 CFR Part 60, Subpart OOO	No changing attributes.
GRP-OWSSTK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	E-1, E-2	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-OWSSTM	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	P-1A OWS1, P-2 OWS2	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRP-OWSSTM	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	P-1A OWS1, P-2 OWS2	R-112-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-OWSSTM	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	P-1A OWS1, P-2 OWS2	R73020-1	30 TAC Chapter 117, Subchapter E, Division 1	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-PWASH1	SOLVENT DEGREASING MACHINES	PW-CY, PW-JKS, PW-SD	R5412-1	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
GRP-VTWF2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	12-17VT1, CY-18AVT1, CY-18BVT1, CY-1VT1, CY-23VT1, CY-2VT1, CY-38VT1, CY-3AVT1, CY-5VT1, J1-1VT1, J2-10VT1, J2-11VT1, J2-12VT1, J2-13VT1, J2-14VT1, J2-15VT1, J2-16VT1, J2-18VT1, J2-19VT1, J2-1VT1, J2-20VT1, J2-21VT1, J2-22VT1, J2-23VT1, J2-24VT1, J2-25VT1, J2-26VT1, J2-27VT1, J2-28VT1, J2-29VT1, J2-2VT1, J2-30VT1, J2-31VT1, J2-3VT1, J2-4VT, J2-5VT1, J2-6VT1, J2-7VT1, J2-8VT1, J2-9VT1, J2-TLOVT1, J2-TLOVT2, J2-TLOVT3, J2-TLOVT4, J2-TLOVT5, J2-TLOVT6, J2-TLOVT7, J2-TLOVT8, J2-TLOVT9, RCM-5VT1, RCM-6VT1, RCM-7VT1, SD-100VT1, SD-101VT1, SD-102VT1, SD-104VT1, SD-105VT1, SD-107VT1, SD-121VT1, SD-122VT1, SD-123VT1, SD-124VT1, SD-125VT1, SD-20VT1, SD-29VT1, SD-90VT1, SD-92VT1, SD-94VT1, SD-96VT1, SD-98VT1, SD-99VT1	R5121-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LFUG-CRSH	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60000-1	40 CFR Part 60, Subpart OOO	No changing attributes.
NAPH-UNLDG	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.



### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R-112-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R73020-1	30 TAC Chapter 117, Subchapter E, Division 1	No changing attributes.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-1	40 CFR Part 60, Subpart Da	Duct Burner = The unit is not a duct burner., D-Series Fuel Type #1 = Solid fossil fuel.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-2	40 CFR Part 60, Subpart Da	Duct Burner = The unit is not a duct burner., D-Series Fuel Type #1 = Natural gas.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-3	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas., D-Series Fuel Type #2 = Solid fossil fuel.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-4	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Solid fossil fuel., D-Series Fuel Type #2 = Solid nonfossil fuel.
P-5 JKS1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63UUUUU-1	40 CFR Part 63, Subpart UUUUU	No changing attributes.
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R1153	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R2009	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-1	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Solid fossil fuel.
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-2	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas.
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Da-3	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas., D-Series Fuel Type #2 = Solid fossil fuel.
P-6	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63UUUUU-1	40 CFR Part 63, Subpart UUUUU	No changing attributes.
PUMPFW-JKS	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PUMPFW-JTD	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PUMPFW-OWS	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
PUMPFW-OWS	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
U-5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
U-6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
USEDIILLDG	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
WKFLUIDUNL	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
WTCHEMUNLG	LOADING/UNLOADING OPERATIONS	N/A	R5212-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
BOILER 1 JTD1	EU	R-112-1	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
BOILER 1 JTD1	EU	R73020-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3035(a) § 117.3035(a)(1) § 117.3035(a)(3) § 117.3035(b) § 117.3035(c) § 117.3035(d) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1) § 117.3040(k)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-1	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 1 JTD1	EU	60D-1	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
BOILER 1 JTD1	EU	60D-1	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(ii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-1	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
BOILER 1 JTD1	EU	60D-2	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 1 JTD1	EU	60D-2	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-2	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO <sub>2</sub> emission requirements.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(i) § 60.45(c)(3)(ii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i)	None	§ 60.45(g)
BOILER 1 JTD1	EU	60D-2	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 86 ng/J heat input (0.2 lb/MMBtu) derived from gaseous fossil fuel.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
BOILER 1 JTD1	EU	60D-3	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-3	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
BOILER 1 JTD1	EU	60D-3	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(b) § 60.43(c)	When different fossil fuels are burned simultaneously in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(ii) § 60.45(c)(4) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(c) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-3	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(b)	Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in any combination, the applicable standard is determined by proration using the specified formula.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(c) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
BOILER 1 JTD1	EU	60D-4	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 1 JTD1	EU	60D-4	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(5) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	60D-4	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(5) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)
BOILER 1 JTD1	EU	60D-4	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 1 JTD1	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU
BOILER 2 JTD2	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
BOILER 2 JTD2	EU	R-112-1	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	R73020-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3035(a) § 117.3035(a)(1) § 117.3035(a)(3) § 117.3035(b) § 117.3035(c) § 117.3035(d) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056
BOILER 2 JTD2	EU	R73020-2	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3035(a) § 117.3035(a)(1) § 117.3035(a)(3) § 117.3035(b) § 117.3035(c) § 117.3035(d) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	R73020-2	NH <sub>3</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3010(2) § 117.3010 § 117.3010(2)(B) § 117.3040(k)	In accordance with the compliance schedule in §117.9300 of this title, the owner or operator of each utility electric power boiler shall ensure that for units which inject urea or ammonia into the exhaust stream for NOx control, ammonia emissions do not exceed 10 ppmv at 3.0% O <sub>2</sub> , dry, for boilers subject to the NOx emission limits specified in paragraph (1) of this section.	§ 117.3035(a) § 117.3035(a)(2) § 117.3035(a)(3) § 117.3035(c) § 117.3040(c) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1)	§ 117.3045(a) [G]§ 117.3045(e)	§ 117.3035(b) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) § 117.3054(a) § 117.3054(a)(3) § 117.3054(a)(4) § 117.3054(c) § 117.3056
BOILER 2 JTD2	EU	60D-1	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 2 JTD2	EU	60D-1	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-1	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(iii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)
BOILER 2 JTD2	EU	60D-1	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-2	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 2 JTD2	EU	60D-2	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
BOILER 2 JTD2	EU	60D-2	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.40(a)	The affected facility burns fuel (such as only gaseous fuels) that has no specific SO <sub>2</sub> emission requirements.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(i) § 60.45(c)(3)(ii) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i)	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-2	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 86 ng/J heat input (0.2 lb/MMBtu) derived from gaseous fossil fuel.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
BOILER 2 JTD2	EU	60D-3	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 2 JTD2	EU	60D-3	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(3) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-3	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(b) § 60.43(c)	When different fossil fuels are burned simultaneously in any combination, the applicable standard (ng/J) shall be determined by proration using the specified formula.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(3) § 60.45(c)(3)(ii) § 60.45(c)(4) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(c) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)
BOILER 2 JTD2	EU	60D-3	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(b)	Except as stated in §60.44(c) and (d), when different fossil fuels are burned simultaneously in any combination, the applicable standard is determined by proration using the specified formula.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(c) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-4	PM	40 CFR Part 60, Subpart D	§ 60.42(a)(1)	On/after the §60.8 tests, no affected facility shall emit gases containing particulate matter in excess of 43 ng/J heat input (0.10 lb/MMBtu) derived from fossil fuel or fossil fuel and wood residue.	§ 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(2) [G]§ 60.46(d)(1) § 60.46(d)(2) [G]§ 60.46(d)(3) § 60.46(d)(6) § 60.46(d)(7) ** See CAM Summary	None	None
BOILER 2 JTD2	EU	60D-4	PM (OPACITY)	40 CFR Part 60, Subpart D	§ 60.42(a)(2)	On/after the performance tests of §60.8, no affected facility shall emit gases exhibiting greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.	§ 60.45(a) § 60.45(c) § 60.45(c)(5) § 60.45(g) § 60.45(g)(1) § 60.46(a) § 60.46(b)(3) ** See CAM Summary	None	§ 60.45(g)
BOILER 2 JTD2	EU	60D-4	SO <sub>2</sub>	40 CFR Part 60, Subpart D	§ 60.43(a)(2)	On/after the §60.8 tests, no affected facility shall emit gases containing SO <sub>2</sub> in excess of 520 ng/J heat input (1.2 lb/MMBtu) derived from solid fossil fuel or solid fossil fuel and wood residue.	§ 60.45(a) § 60.45(c) § 60.45(c)(1) § 60.45(c)(2) § 60.45(c)(5) [G]§ 60.45(e) [G]§ 60.45(f) § 60.45(g) § 60.45(g)(2)(i) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(4) [G]§ 60.46(d)(1) [G]§ 60.46(d)(3) § 60.46(d)(4) § 60.46(d)(6) § 60.46(d)(7)	None	§ 60.45(g)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BOILER 2 JTD2	EU	60D-4	NO <sub>x</sub>	40 CFR Part 60, Subpart D	§ 60.44(a)(3)	On/after the §60.8 tests, no affected facility shall emit gases containing NO <sub>x</sub> , expressed as NO <sub>2</sub> , in excess of 300 ng/J heat input (0.7 lb/MMBtu) derived from the specified fuels.	§ 60.45(b)(3) § 60.45(b)(4) § 60.46(a) § 60.46(b)(1) [G]§ 60.46(b)(5) [G]§ 60.46(d)(1) § 60.46(d)(5) § 60.46(d)(6) § 60.46(d)(7) ** See Periodic Monitoring Summary	None	None
BOILER 2 JTD2	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU
E-3	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-1	EU	60III-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-1	EU	60III-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than 560 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 6.4 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-1	EU	60III-1	PM (OPACITY)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-1	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-1	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(c) § 63.6645(f)
EMGEN-2	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-2	EU	60III-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-2	EU	60III-1	PM (OPACITY)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-2	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(c) § 63.6645(f)
EMGEN-DAM	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-GATE	EU	60III-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-GATE	EU	60III-1	NMHC and NO <sub>x</sub>	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO <sub>x</sub> emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-GATE	EU	60III-1	PM (OPACITY)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
EMGEN-GATE	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EMGEN-GATE	EU	63ZZZZ-1	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
ETH-UNLDG	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(3)(A) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt from this division, except for the specified requirements.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
ETH-UST	EU	R115-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUELOILLD G	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
FUELOILUN L	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
G-1A	EU	R-5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	** See Periodic Monitoring Summary	None	None
GRP-AUXB	EU	60Dc-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-AUXB	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-AUXB	EU	60Dc-1	PM (OPACITY)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-AUXB	EU	63DDDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1) - Table 3.1 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-COAL1	EU	60Y-1	PM (OPACITY)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c)
GRP-COAL2	EU	60Y-1	PM (OPACITY)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	§ 60.258(c)

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-GENOWS	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRPHTRO WS1	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-LIME2	EU	60000-1	PM (OPACITY)	40 CFR Part 60, Subpart OOO	§ 60.672(b)-Table 3 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart OOO ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart OOO
GRP-LIME2	EU	60000-1	PM (OPACITY)	40 CFR Part 60, Subpart OOO	§ 60.672(f)-Table 2 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart OOO ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart OOO

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-OWSSTK	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-OWSSTM	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any oil or gas fuel-fired steam generator with a heat input greater than 2,500 million Btu per hour to exceed 0.1 pound of total suspended particulate per million Btu input averaged over a two-hour period.	** See Periodic Monitoring Summary	None	None
GRP-OWSSTM	EU	R-112-1	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a)	No person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)



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GRP-OWSSTM	EU	R73020-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3035(a) § 117.3035(a)(1) § 117.3035(a)(3) § 117.3035(b) § 117.3035(c) § 117.3035(d) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) § 117.3040(h) § 117.3040(h)(1)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056
GRP-PWASH1	EU	R5412-1	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) [G]§ 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	Cold solvent cleaning. No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F).	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
GRP-VTWF2	EP	R5121-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LFUG-CRSH	EU	60000-1	PM (OPACITY)	40 CFR Part 60, Subpart 000	§ 60.672(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart 000 ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
NAPH-UNLDG	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
P-5 JKS1	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
P-5 JKS1	EU	R-112-1	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) § 112.8(d) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
P-5 JKS1	EU	R73020-1	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3035(a) § 117.3035(a)(1) § 117.3035(a)(3) § 117.3035(b) § 117.3035(c) § 117.3035(d) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) § 117.3040(h) § 117.3040(h)(1) § 117.3040(k)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056
P-5 JKS1	EU	60Da-1	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(a)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-1	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
P-5 JKS1	EU	60Da-1	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(a)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-2	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(a)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-5 JKS1	EU	60Da-2	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-2	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-2	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(b)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-5 JKS1	EU	60Da-3	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(a)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-3	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-3	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-5 JKS1	EU	60Da-3	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(h)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-4	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(a)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-4	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-5 JKS1	EU	60Da-4	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	60Da-4	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(h)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-5 JKS1	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU



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P-6	EU	R1153	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.153(b)	No person may cause, suffer, allow, or permit emissions of particulate matter from any solid fossil fuel-fired steam generator to exceed 0.3 pound of total suspended particulate per million Btu heat input, averaged over a two-hour period.	** See CAM Summary	None	None
P-6	EU	R2009	SO <sub>2</sub>	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO <sub>2</sub> from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) § 112.8(d) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
P-6	EU	60Da-1	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-1	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-6	EU	60Da-1	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-1	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-2	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-6	EU	60Da-2	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-2	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-2	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-6	EU	60Da-3	NO <sub>x</sub>	40 CFR Part 60, Subpart Da	§ 60.44Da(e)(1) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-3	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(c)(2) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	60Da-3	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da

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P-6	EU	60Da-3	SO <sub>2</sub>	40 CFR Part 60, Subpart Da	§ 60.43Da(i)(1)(i) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart Da	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart Da
P-6	EU	63UUUUU-1	112(B) HAPS	40 CFR Part 63, Subpart UUUUU	§ 63.9981 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart UUUUU	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart UUUUU
PUMPFW-JKS	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

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PUMPFW-JTD	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§§ 63.6640(e) § 63.6650(f)
PUMPFW-OWS	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(A) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
PUMPFW-OWS	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
U-5	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None

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U-6	EP	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
USEDIILLD G	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
WKFLUIDU NL	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
WTCHEMU NLG	EU	R5212-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

**Additional Monitoring Requirements**

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### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a 6-minute average except during periods defined in 111.111(a)(1)(E)	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: PM	Main Standard: § 60.42(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: PM	Main Standard: § 60.42(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	



### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 1 JTD1	
Control Device ID No.: D1-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a 6-minute average except during periods defined in 111.111(a)(1)(E)	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: PM	Main Standard: § 60.42(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: PM	Main Standard: § 60.42(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: PM	Main Standard: § 60.42(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: PM	Main Standard: § 60.42(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	



### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: D2-BH	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: PM (OPACITY)	Main Standard: § 60.42(a)(2)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 20% opacity over a six-minute average except for one six-minute period per hour of no more than 27% opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-5 JKS1	
Control Device ID No.: FF1	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 10% opacity over a 6-minute average	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: P-5 JKS1	
Control Device ID No.: WS-1	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R-112-1
Pollutant: SO <sub>2</sub>	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO <sub>2</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: hourly	
Deviation Limit: Greater than 3.0 lb/MMBtu sulfur dioxide concentration average hourly	
<p>CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the concentration of sulfur dioxide in the exhaust stream of the control device.</p> <p>The CEMS shall be operated in accordance with the requirements of 40 CFR Part 75.</p> <p>In addition, monitor oxygen or carbon dioxide with a CEMS operated in accordance with above CEMS procedures.</p>	

### CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: P-6	
Control Device ID No.: FF1	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(b)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 10% opacity over a 6-minute average	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

### CAM Summary

Unit/Group/Process Information	
ID No.: P-6	
Control Device ID No.: WS-1	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2009
Pollutant: SO <sub>2</sub>	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO <sub>2</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: hourly	
Deviation Limit: Greater than 3.0 lb/MMBtu sulfur dioxide concentration averaged hourly	
<p>CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the concentration of sulfur dioxide in the exhaust stream of the control device. The CEMS shall be operated in accordance with the requirements of 40 CFR Part 75. In addition, monitor oxygen or carbon dioxide with a CEMS operated in accordance with above CEMS procedures.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R-112-1
Pollutant: SO <sub>2</sub>	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO <sub>2</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: three-hour period	
Deviation Limit: Greater than 3.0 lb/MMBtu sulfur dioxide averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the concentration of SO<sub>2</sub> in the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and Performance Specifications of 40 CFR Part 75. The maximum sulfur dioxide concentration (specified in the units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(1)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.2 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO <sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(3)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.7 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(3)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.7 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 1 JTD1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(b)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than the limit calculated using the equation listed in 60.44(b) averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R-112-1
Pollutant: SO <sub>2</sub>	Main Standard: § 112.8(a)
Monitoring Information	
Indicator: SO <sub>2</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: three-hour period	
Deviation Limit: Greater than 3.0 lb/MMBtu sulfur dioxide averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the concentration of SO<sub>2</sub> in the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, measure and record the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and Performance Specifications of 40 CFR Part 75. The maximum sulfur dioxide concentration (specified in the units of the underlying applicable requirement) is the corresponding sulfur dioxide limit associated with the emission limitation in the underlying applicable requirement. Any monitoring data above the maximum limit shall be considered and reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-2
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(1)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.2 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-1
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(3)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.7 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-4
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(a)(3)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than 0.7 lb/MMBtu nitrogen oxide concentration averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER 2 JTD2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart D	SOP Index No.: 60D-3
Pollutant: NO <sub>x</sub>	Main Standard: § 60.44(b)
Monitoring Information	
Indicator: NO <sub>x</sub> concentration	
Minimum Frequency: four times per hour	
Averaging Period: 3-hour period	
Deviation Limit: Greater than the limit calculated using the equation listed in 60.44(b) averaged over a 3-hour period	
<p>Periodic Monitoring Text: Measure and record the nitrogen oxides concentration of the exhaust stream of the stack with a continuous emission monitoring system (CEMS). In addition, monitor the oxygen or carbon dioxide content of the flue gas with a CEMS. The CEMS shall be operated in accordance with 40 CFR Part 75 and performance specifications of 40 CFR Part 75. NO<sub>x</sub> emissions shall be corrected/calculated in units of the underlying applicable emission limitation (pounds per MMBtu).</p>	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: ETH-UST	
Control Device ID No.: FP-1	Control Device Type: Other Control Device Type
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R115-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Failure to inspect fill pipe or conduct any necessary repairs before tank is refilled	
Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: ETH-UST	
Control Device ID No.: FP-1	Control Device Type: Other Control Device Type
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R115-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Liquid Level	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: Liquid level fall below the fill pipe level	
Periodic Monitoring Text: Regardless of the location of the fill pipe, the fill pipe must be submerged at all times. Monitor and record the depth of the liquid using an automated/remote sounding device or liquid level sensing alarm/monitor. It shall be considered and reported as a deviation any time the liquid level falls below the fill pipe level.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: G-1A	
Control Device ID No.: FP-1	Control Device Type: Other Control Device Type
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R-5112-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: n/a	
Deviation Limit: Failure to inspect the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed shall be reported as a deviation.	
<p>Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: G-1A	
Control Device ID No.: FP-1	Control Device Type: Other Control Device Type
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R-5112-1
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Record of Tank Construction Specifications	
Minimum Frequency: n/a	
Averaging Period: n/a	
Deviation Limit: Failure to maintain a record of the tank construction specifications will be reported as a deviation.	
<p>Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-COAL1	
Control Device ID No.: DC-1	Control Device Type: Fabric Filter
Control Device ID No.: DC-101	Control Device Type: Fabric Filter
Control Device ID No.: DC-14	Control Device Type: Fabric Filter
Control Device ID No.: DC-2	Control Device Type: Fabric Filter
Control Device ID No.: DC-201	Control Device Type: Fabric Filter
Control Device ID No.: DC-3	Control Device Type: Fabric Filter
Control Device ID No.: DC-4A/4B	Control Device Type: Fabric Filter
Control Device ID No.: DC-5	Control Device Type: Fabric Filter
Control Device ID No.: DC-6	Control Device Type: Fabric Filter
Control Device ID No.: DC-7	Control Device Type: Fabric Filter
Control Device ID No.: DC-8	Control Device Type: Fabric Filter
Control Device ID No.: DC-CCG016	Control Device Type: Fabric Filter
Control Device ID No.: PX-C01A/B	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1
Pollutant: PM (OPACITY)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Pressure drop/opacity	
Minimum Frequency: Weekly	
Averaging Period: 6 minutes	
Deviation Limit: 1 inch water minimum, 6 inches water maximum AND maximum opacity of 20%	
<p>Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit or above the maximum limit shall be considered and reported as a deviation only if the opacity is equal to or greater than the permitted limit as determined by a certified Method 9 or Method 22 reading conducted within 24 hours. As an alternate to pressure drop, measure and record Method 9 or Method 22 readings once every week. Any certified Method 9 reading above the opacity limit of 20% shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-COAL2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1
Pollutant: PM (OPACITY)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: Six-minutes	
Deviation Limit: Maximum opacity of 20%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. The deviation limit is the maximum opacity corresponding to the underlying applicable requirement. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-GENOWS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: Maximum opacity of 30%; except during periods defined in 30 TAC 111.111(a)(1)(E)	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPHTROWS1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: Maximum opacity of 30%; except during periods defined in 30 TAC 111.111(a)(1)(E)	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-LIME2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM (OPACITY)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: Six-minutes	
Deviation Limit: Maximum opacity of 10%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. The deviation limit is the maximum opacity corresponding to the underlying applicable requirement. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-LIME2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM (OPACITY)	Main Standard: § 60.672(f)-Table 2
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: Six-minutes	
Deviation Limit: Maximum opacity of 7%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. The deviation limit is the maximum opacity corresponding to the underlying applicable requirement. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-OWSSTK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Fuel type/opacity	
Minimum Frequency: Annually or at any time an alternate fuel is used	
Averaging Period: n/a	
Deviation Limit: Firing an alternate fuel for greater than 24 consecutive hours without conducting a visible emissions observation and a Test Method 9 is not performed; opacity greater than 15% averaged over a six-minute period.	
<p>Periodic Monitoring Text: Record the type of fuel used by the unit. If an alternate fuel is fired, either alone or in combination with the specified gas, for a period greater than or equal to 24 consecutive hours it shall be considered and reported as a deviation or the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are observed. Any time an alternate fuel is fired for a period of greater than 7 consecutive days then visible emissions observations will be conducted no less than once per week. Documentation of all observations shall be maintained. If visible emissions are present during the firing of an alternate fuel, the permit holder shall either list this occurrence as a deviation or the permit holder may determine the opacity consistent with Test Method 9. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-OWSSTM	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1153
Pollutant: PM	Main Standard: § 111.153(c)
Monitoring Information	
Indicator: Fuel type/Fuel firing rate	
Minimum Frequency: Annually or at any time an alternate fuel is fired	
Averaging Period: 1 hr	
Deviation Limit: Firing an alternate fuel at a rate greater than 148.6 kgal/hr	
Periodic Monitoring Text: Record the type of fuel used by each boiler. If an alternate fuel is fired, either alone or in combination with natural gas, record the firing rate of the alternate fuel. Maintain records of the alternate fuel firing rate. Any hourly readings of alternate fuel flow rate greater than the deviation limit shall be reported as a deviation for that boiler.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-OWSSTM	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R-112-1
Pollutant: SO <sub>2</sub>	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Sulfur content of liquid fuel	
Minimum Frequency: quarterly when burning fuel oil and within 24 hours of a change from primary fuel	
Averaging Period: n/a	
Deviation Limit: Burning fuel oil greater than 0.7% sulfur	
Periodic Monitoring Text: Measure and record the sulfur content of the liquid fuel oil according to 40 CFR Part 75 Appendix D requirements. Any monitoring data above the deviation limit shall be considered and reported as a deviation.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-PWASH1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-1
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Any monitoring data indicating non-compliance with 30 TAC § 115.412(1)(A), (1)(C), (1)(D), (1)(F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LFUG-CRSH	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM (OPACITY)	Main Standard: § 60.672(e)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: Six-minutes	
Deviation Limit: Maximum opacity of 7%	
<p>Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. The deviation limit is the maximum opacity corresponding to the underlying applicable requirement. If there is no applicable or corresponding opacity limit, a maximum opacity shall be established using the most recent performance test. Any opacity readings that are above the opacity limit from the underlying applicable requirement shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PUMPFW-OWS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(A)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: n/a	
Deviation Limit: Maximum opacity of 30%; except during periods defined in 30 TAC 111.111(a)(1)(E)	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	



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### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
A-L55	N/A	40 CFR Part 60, Subpart OOO	Storage piles not subject to 40 CFR Part 60, Subpart OOO; not listed as an applicable source.
C-DEELY	N/A	40 CFR Part 60, Subpart Y	Construction date prior to October 24, 1974
EMGEN-1	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
EMGEN-1	N/A	30 TAC Chapter 117, Subchapter E, Division 1	These units are not electric power boilers or gas turbines
EMGEN-2	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
EMGEN-2	N/A	30 TAC Chapter 117, Subchapter E, Division 1	These units are not electric power boilers or gas turbines
EMGEN-DAM	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
EMGEN-DAM	N/A	30 TAC Chapter 117, Subchapter E, Division 1	These units are not electric power boilers or gas turbines
EMGEN-DAM	N/A	40 CFR Part 60, Subpart IIII	The engines were constructed prior to 07/11/2005
EMGEN-GATE	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
EMGEN-GATE	N/A	30 TAC Chapter 117, Subchapter E, Division 1	These units are not electric power boilers or gas turbines
ETH-UST	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19.800 gallons)

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
F-CCS	N/A	40 CFR Part 60, Subpart Y	Not applicable to coal storage piles constructed on or before May 27, 2009.
F-GYP	N/A	40 CFR Part 60, Subpart OOO	Not applicable to storage piles.
F-LS	N/A	40 CFR Part 60, Subpart OOO	Fugitives associated with truck dumping of nonmetallic minerals into a screening operation, feed hopper, and/or crusher.
F-NH3	N/A	30 TAC Chapter 115, Storage of VOCs	Not storing a VOC
F-NH3	N/A	40 CFR Part 60, Subpart Kb	Storage capacity less than 19,800 gallons (75 cubic meters) and not storing a VOC or VHAP
G-1A	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Tank is a motor vehicle fuel dispensing facility
G-1A	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-AUXB	A-1, A-2	30 TAC Chapter 112, Sulfur Compounds	Does not burn liquid fuel
GRP-AUXB	A-1, A-2	30 TAC Chapter 117, Subchapter E, Division 1	These boilers are not electric power boilers
GRP-AUXSTK	A-1, A-2	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
GRP-COAL1	DC-1, DC-101, DC-14, DC-2, DC-201, DC-3, DC-4A/4B, DC-5, DC-6, DC-7, DC-8, DC-CCG016, PX-C01A/B	40 CFR Part 60, Subpart OOO	Coal does not meet the definition of a non-metallic mineral
GRP-COAL2	CF-1, CF-16, CF-2, CF-3, CF-4A, CF-5, CF-6, CF-7, CF-8, CF-D21, CF-D6, CF-D8, F-AREA1, F-AREA2, F-AREA3, PX-C02, PX-C04, PX-C16/C17	40 CFR Part 60, Subpart OOO	Coal does not meet the definition of a non-metallic mineral

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-COAL3	DC-CCG006, DC-CCG008, DC-CCG021	40 CFR Part 60, Subpart OOO	Coal does not meet the definition of a non-metallic mineral
GRP-COAL3	DC-CCG006, DC-CCG008, DC-CCG021	40 CFR Part 60, Subpart Y	The facilities were constructed before 10/27/1974
GRP-GENJS1	EMGEN-AQCS, EMGEN-MANT	30 TAC Chapter 115, Vent Gas Controls	The exhaust streams are from combustion units not being used as VOC control devices
GRP-GENJS1	EMGEN-AQCS, EMGEN-MANT	30 TAC Chapter 117, Subchapter E, Division 1	These units are not electric power boilers or gas turbines
GRP-GENJS1	EMGEN-AQCS, EMGEN-MANT	40 CFR Part 60, Subpart IIII	The engines were constructed prior to 07/11/2005
GRP-GENJS1	EMGEN-AQCS, EMGEN-MANT	40 CFR Part 63, Subpart ZZZZ	The engines are existing compression ignition emergency engines rated greater than 500 hp at a major source of HAPs
GRP-OWSEP	CY-16, J1-62, J1-63, JKS2-OWS1, JKS2-OWS2, SD-128, SD-129, SD-130	30 TAC Chapter 115, Water Separation	VOC TVP is less than 1.5 psia
GRP-OWSEP	CY-16, J1-62, J1-63, JKS2-OWS1, JKS2-OWS2, SD-128, SD-129, SD-130	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-OWSEP	CY-16, J1-62, J1-63, JKS2-OWS1, JKS2-OWS2, SD-128, SD-129, SD-130	40 CFR Part 63, Subpart VV	This standard is not referenced by any other subpart of 40 CFR Parts 60, 61, or 63 that is applicable to the site
GRP-OWSSTM	P-1A OWS1, P-2 OWS2	40 CFR Part 60, Subpart A	Not affected by potentially applicable NSPS.
GRP-OWSSTM	P-1A OWS1, P-2 OWS2	40 CFR Part 60, Subpart D	Constructed prior to August 17, 1971.
GRP-PWASH1	PW-CY, PW-JKS, PW-SD	40 CFR Part 63, Subpart T	The parts washer solvent contains less than 5% HAPs

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-PWASH2	PW-CYG1, PW-CYG2	30 TAC Chapter 115, Degreasing Processes	These remote reservoir cold solvent cleaners use solvents with a TVP not greater than 0.6 psia at 100 degrees F, have a drain area of less than 16 square inches, and their waste VOC is disposed of in enclosed containers
GRP-PWASH2	PW-CYG1, PW-CYG2	40 CFR Part 63, Subpart T	The parts washer solvent contains less than 5% HAPs
GRP-TKFO	A-P5DG5, A-P7DG1, A-P7DG2, CY-13 TK48, CY-13A, CY-7 TK57, J1-24, J1-26, J1-27, J1-31, RCM-2, SD-108, SD-109, SD-115, SD-116, SD-117, SD-14 TK2A, SD-21, SD-23, SD-24, SD-25, SD-26, SD-27, SD-30, T-3, T-4, T-EMGENGT	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
GRP-TKFO	A-P5DG5, A-P7DG1, A-P7DG2, CY-13 TK48, CY-13A, CY-7 TK57, J1-24, J1-26, J1-27, J1-31, RCM-2, SD-108, SD-109, SD-115, SD-116, SD-117, SD-14 TK2A, SD-21, SD-23, SD-24, SD-25, SD-26, SD-27, SD-30, T-3, T-4, T-EMGENGT	40 CFR Part 60, Subpart K	The storage capacity is less than 40,000 gallons
GRP-TKFO	A-P5DG5, A-P7DG1, A-P7DG2, CY-13 TK48, CY-13A, CY-7 TK57, J1-24, J1-26, J1-27, J1-31, RCM-2, SD-108, SD-109, SD-115, SD-116, SD-117, SD-14 TK2A, SD-21, SD-23, SD-24, SD-25, SD-26, SD-27, SD-30, T-3, T-4, T-EMGENGT	40 CFR Part 60, Subpart Ka	The storage capacity is less than 40,000 gallons
GRP-TKFO	A-P5DG5, A-P7DG1, A-P7DG2, CY-13 TK48, CY-13A, CY-7 TK57, J1-24, J1-26, J1-27, J1-31, RCM-2, SD-108, SD-109, SD-115, SD-116, SD-117, SD-14 TK2A, SD-21, SD-23, SD-24, SD-25, SD-26, SD-27, SD-30, T-3, T-4, T-EMGENGT	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TKNAPH	CY-13 TK49, CY-13B, J1-30, RCM-3, SD-22	30 TAC Chapter 115, Storage of VOCs	Storage capacity is not greater than 1,000 gallons
GRP-TKNAPH	CY-13 TK49, CY-13B, J1-30, RCM-3, SD-22	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-TKUO	CY-6 TK51, CY-6 TK52, RCM-1, SD-31 WO1, SD-31 WO2, SD-31 WO3	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
GRP-TKUO	CY-6 TK51, CY-6 TK52, RCM-1, SD-31 WO1, SD-31 WO2, SD-31 WO3	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-TKWF1	CY-10A, CY-10B, CY-11A, CY-11B, CY-14, CY-15A, CY-15B, CY-4, J1-10, J1-11, J1-2, J1-20, J1-21, J1-22, J1-3, J1-5, J1-6, J1-7, J1-8, J1-9, J2-39, J2-40, J2-41, RCM-4, SD-103, SD-105, SD-110, SD-111, SD-112, SD-113, SD-114, SD-118, SD-119, SD-120, SD-19, SD-28, SD-89, SD-91, SD-93, SD-95, SD-97	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
GRP-TKWF1	CY-10A, CY-10B, CY-11A, CY-11B, CY-14, CY-15A, CY-15B, CY-4, J1-10, J1-11, J1-2, J1-20, J1-21, J1-22, J1-3, J1-5, J1-6, J1-7, J1-8, J1-9, J2-39, J2-40, J2-41, RCM-4, SD-103, SD-105, SD-110, SD-111, SD-112, SD-113, SD-114, SD-118, SD-119, SD-120, SD-19, SD-28, SD-89, SD-91, SD-93, SD-95, SD-97	40 CFR Part 60, Subpart K	The storage capacity is less than 40,000 gallons
GRP-TKWF1	CY-10A, CY-10B, CY-11A, CY-11B, CY-14, CY-15A, CY-15B, CY-4, J1-10, J1-11, J1-2, J1-20, J1-21, J1-22, J1-3, J1-5, J1-6, J1-7, J1-8, J1-9, J2-39, J2-40, J2-41, RCM-4, SD-103, SD-105, SD-110, SD-111, SD-112, SD-113, SD-114, SD-118, SD-119, SD-120, SD-19, SD-28, SD-89, SD-91, SD-93, SD-95, SD-97	40 CFR Part 60, Subpart Ka	The storage capacity is less than 40,000 gallons

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TKWF1	CY-10A, CY-10B, CY-11A, CY-11B, CY-14, CY-15A, CY-15B, CY-4, J1-10, J1-11, J1-2, J1-20, J1-21, J1-22, J1-3, J1-5, J1-6, J1-7, J1-8, J1-9, J2-39, J2-40, J2-41, RCM-4, SD-103, SD-105, SD-110, SD-111, SD-112, SD-113, SD-114, SD-118, SD-119, SD-120, SD-19, SD-28, SD-89, SD-91, SD-93, SD-95, SD-97	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-TKWF2	CY-1, CY-18A, CY-18B, CY-2, CY-23, CY-3A, CY-3B, CY-5, J1-1, J2-1, J2-10, J2-11, J2-12, J2-13, J2-14, J2-15, J2-16, J2-17, J2-18, J2-19, J2-2, J2-20, J2-21, J2-22, J2-23, J2-24, J2-25, J2-26, J2-27, J2-28, J2-29, J2-3, J2-30, J2-31, J2-32, J2-33, J2-36, J2-37, J2-38, J2-4, J2-5, J2-6, J2-7, J2-8, J2-9, RCM-5, RCM-6, RCM-7, SD-100, SD-101, SD-102, SD-104, SD-106, SD-107, SD-121, SD-122, SD-123, SD-124, SD-125, SD-20, SD-29, SD-90, SD-92, SD-94, SD-96, SD-98, SD-99	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
GRP-TKWF2	CY-1, CY-18A, CY-18B, CY-2, CY-23, CY-3A, CY-3B, CY-5, J1-1, J2-1, J2-10, J2-11, J2-12, J2-13, J2-14, J2-15, J2-16, J2-17, J2-18, J2-19, J2-2, J2-20, J2-21, J2-22, J2-23, J2-24, J2-25, J2-26, J2-27, J2-28, J2-29, J2-3, J2-30, J2-31, J2-32, J2-33, J2-36, J2-37, J2-38, J2-4, J2-5, J2-6, J2-7, J2-8, J2-9, RCM-5, RCM-6, RCM-7, SD-100, SD-101, SD-102, SD-104, SD-106, SD-107, SD-121, SD-122, SD-123, SD-124, SD-125, SD-20, SD-29, SD-90, SD-92, SD-94, SD-96, SD-98, SD-99	40 CFR Part 60, Subpart K	The storage capacity is less than 40,000 gallons

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-TKWF2	CY-1, CY-18A, CY-18B, CY-2, CY-23, CY-3A, CY-3B, CY-5, J1-1, J2-1, J2-10, J2-11, J2-12, J2-13, J2-14, J2-15, J2-16, J2-17, J2-18, J2-19, J2-2, J2-20, J2-21, J2-22, J2-23, J2-24, J2-25, J2-26, J2-27, J2-28, J2-29, J2-3, J2-30, J2-31, J2-32, J2-33, J2-36, J2-37, J2-38, J2-4, J2-5, J2-6, J2-7, J2-8, J2-9, RCM-5, RCM-6, RCM-7, SD-100, SD-101, SD-102, SD-104, SD-106, SD-107, SD-121, SD-122, SD-123, SD-124, SD-125, SD-20, SD-29, SD-90, SD-92, SD-94, SD-96, SD-98, SD-99	40 CFR Part 60, Subpart Ka	The storage capacity is less than 40,000 gallons
GRP-TKWF2	CY-1, CY-18A, CY-18B, CY-2, CY-23, CY-3A, CY-3B, CY-5, J1-1, J2-1, J2-10, J2-11, J2-12, J2-13, J2-14, J2-15, J2-16, J2-17, J2-18, J2-19, J2-2, J2-20, J2-21, J2-22, J2-23, J2-24, J2-25, J2-26, J2-27, J2-28, J2-29, J2-3, J2-30, J2-31, J2-32, J2-33, J2-36, J2-37, J2-38, J2-4, J2-5, J2-6, J2-7, J2-8, J2-9, RCM-5, RCM-6, RCM-7, SD-100, SD-101, SD-102, SD-104, SD-106, SD-107, SD-121, SD-122, SD-123, SD-124, SD-125, SD-20, SD-29, SD-90, SD-92, SD-94, SD-96, SD-98, SD-99	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
GRP-TKWT	A-P5SI1, A-P6SI1, A-P6SI2, A-P7SI2, A-P8LC1, A-P9SL1	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
GRP-TKWT	A-P5SI1, A-P6SI1, A-P6SI2, A-P7SI2, A-P8LC1, A-P9SL1	40 CFR Part 60, Subpart K	The storage capacity is less than 40,000 gallons
GRP-TKWT	A-P5SI1, A-P6SI1, A-P6SI2, A-P7SI2, A-P8LC1, A-P9SL1	40 CFR Part 60, Subpart Ka	The storage capacity is less than 40,000 gallons
GRP-TKWT	A-P5SI1, A-P6SI1, A-P6SI2, A-P7SI2, A-P8LC1, A-P9SL1	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)



### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
J1-4 TK3	N/A	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
J1-4 TK3	N/A	40 CFR Part 60, Subpart Kb	The storage capacity is less than 75 cubic meters (19,800 gallons)
LDC-12	N/A	40 CFR Part 60, Subpart OOO	Fugitives associated with truck dumping of nonmetallic minerals into a screening operation, feed hopper, and/or crusher.
P-5 JKS1	N/A	40 CFR Part 60, Subpart D	Facility is covered under Subpart Da.
P-6	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The boiler was placed into service after 12/31/1995
PAINTING	N/A	40 CFR Part 63, Subpart MMMM	These surface coating operations are part of janitorial, building, and facility maintenance activities
PROPANETKS	N/A	30 TAC Chapter 115, Storage of VOCs	The storage capacity is less than 1,000 gallons
PUMPFW-JKS	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust stream is from combustion unit not being used as a VOC control device
PUMPFW-JKS	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not electric power boiler or gas turbine
PUMPFW-JKS	N/A	40 CFR Part 60, Subpart IIII	The engine was constructed prior to 07/11/2005
PUMPFW-JTD	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust stream is from combustion unit not being used as a VOC control device
PUMPFW-JTD	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not electric power boiler or gas turbine

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
PUMPFW-JTD	N/A	40 CFR Part 60, Subpart IIII	The engine was constructed prior to 07/11/2005
PUMPFW-OWS	N/A	30 TAC Chapter 115, Vent Gas Controls	The exhaust stream is from combustion unit not being used as a VOC control device
PUMPFW-OWS	N/A	30 TAC Chapter 117, Subchapter E, Division 1	The unit is not electric power boiler or gas turbine
PUMPFW-OWS	N/A	40 CFR Part 60, Subpart IIII	The engine was constructed prior to 07/11/2005
T-1	N/A	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
T-1	N/A	40 CFR Part 60, Subpart K	VOC RVP and maximum TVP are less than 1.0 psia
T-2	N/A	30 TAC Chapter 115, Storage of VOCs	VOC TVP is less than 1.5 psia
T-2	N/A	40 CFR Part 60, Subpart K	The tank was constructed before 06/11/1973
T-ACID	N/A	30 TAC Chapter 115, Storage of VOCs	Not storing a VOC
T-ACID	N/A	40 CFR Part 60, Subpart Kb	Design capacity less than 75 m3 (19,800 gal)
T-BASE	N/A	30 TAC Chapter 115, Storage of VOCs	Not storing a VOC
T-BASE	N/A	40 CFR Part 60, Subpart Kb	Design capacity less than 75 m3 (19,800 gal)

**New Source Review Authorization References**

<b>New Source Review Authorization References .....</b>	<b>146</b>
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### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX1037	Issuance Date: 08/31/2015
PSD Permit No.: PSDTX742M1	Issuance Date: 04/10/2012
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 101006	Issuance Date: 03/29/2012
Authorization No.: 111116	Issuance Date: 07/29/2013
Authorization No.: 136922	Issuance Date: 12/22/2015
Authorization No.: 137903	Issuance Date: 01/21/2016
Authorization No.: 1491	Issuance Date: 03/06/2014
Authorization No.: 1492	Issuance Date: 03/17/2014
Authorization No.: 1652	Issuance Date: 08/07/2009
Authorization No.: 18426	Issuance Date: 04/10/2012
Authorization No.: 45640	Issuance Date: 03/06/2012
Authorization No.: 51186	Issuance Date: 02/08/2012
Authorization No.: 52616	Issuance Date: 04/10/2012
Authorization No.: 52617	Issuance Date: 05/16/2012
Authorization No.: 70492	Issuance Date: 08/31/2015
Authorization No.: 73932	Issuance Date: 04/24/2014
Authorization No.: 73935	Issuance Date: 04/24/2014
Authorization No.: 90267	Issuance Date: 09/17/2009
Authorization No.: 99915	Issuance Date: 12/07/2011
Authorization No.: PAL11	Issuance Date: 06/13/2007
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.181	Version No./Date: 11/01/2001
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.242	Version No./Date: 09/04/2000
Number: 106.244	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2001
Number: 106.261	Version No./Date: 11/01/2003

### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Number: 106.262	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.316	Version No./Date: 09/04/2000
Number: 106.317	Version No./Date: 09/04/2000
Number: 106.355	Version No./Date: 11/01/2001
Number: 106.371	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.471	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.474	Version No./Date: 09/04/2000
Number: 106.475	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.531	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000
Number: 106.533	Version No./Date: 06/30/2004
Number: 3	Version No./Date: 05/08/1972
Number: 3	Version No./Date: 11/05/1986
Number: 3	Version No./Date: 09/13/1993
Number: 5	Version No./Date: 12/01/1972
Number: 5	Version No./Date: 07/20/1992
Number: 5	Version No./Date: 04/05/1995
Number: 7	Version No./Date: 07/20/1992
Number: 8	Version No./Date: 05/04/1994
Number: 14	Version No./Date: 09/13/1993
Number: 51	Version No./Date: 11/05/1986

### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Number: 51	Version No./Date: 07/20/1992
Number: 53	Version No./Date: 07/20/1992
Number: 53	Version No./Date: 09/13/1993
Number: 57	Version No./Date: 12/01/1972
Number: 57	Version No./Date: 09/17/1973
Number: 57	Version No./Date: 05/05/1976
Number: 58	Version No./Date: 05/08/1972
Number: 60	Version No./Date: 12/01/1972
Number: 61	Version No./Date: 11/05/1986
Number: 61	Version No./Date: 09/12/1989
Number: 61	Version No./Date: 07/20/1992
Number: 64	Version No./Date: 01/08/1980
Number: 69	Version No./Date: 05/05/1976
Number: 70	Version No./Date: 06/07/1996
Number: 75	Version No./Date: 09/13/1993
Number: 103	Version No./Date: 06/07/1996
Number: 106	Version No./Date: 08/30/1988
Number: 106	Version No./Date: 07/20/1992

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
12-17VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 1	106.261/11/01/2003
A-1	SPRUCE AUX BOILER 1A	18426, PSDTX742M1
A-1	SPRUCE AUXILIARY BOILER STACK 1	18426, PSDTX742M1
A-2	SPRUCE AUX BOILER 1B	18426, PSDTX742M1
A-2	SPRUCE AUXILIARY BOILER STACK 2	18426, PSDTX742M1
A-L55	LIMESTONE STORAGE PILE	70492, PSDTX1037
A-P5DG5	EMERGENCY CRANK GENERATOR DIESEL STORAGE TANK	106.472/09/04/2000
A-P5SI1	SCALE INHIBITOR HEDP, ACRYLIC POLYMER, KOH STORAGE	106.371/03/14/1997
A-P6SI1	SCALE INHIBITOR HEDP, ACRYLIC POLYMER, KOH STORAGE	106.371/03/14/1997
A-P6SI2	SCALE INHIBITOR HEDP, ACRYLIC POLYMER, KOH STORAGE	008/05/04/1994
A-P7DG1	SPRUCE MAINTENANCE BLDG DIESEL STORAGE TANK	106.472/09/04/2000
A-P7DG2	AQCS BUILDING DIESEL STORAGE TANK	106.472/09/04/2000
A-P7SI2	SCALE INHIBITOR HEDP, ACRYLIC POLYMER, KOH STORAGE	106.371/03/14/1997
A-P8LC1	LIQUID COAGULANT POLYMER STORAGNE TANK	69/05/05/1976
A-P9SL1	SCALE INHIBITOR HEDP, ACRYLIC POLYMER, KOH STORAGE	106.371/03/14/1997
BOILER 1 JTD1	DEELY STEAM GENERATOR 1	1491, 51186
BOILER 2 JTD2	DEELY STEAM GENERATOR 2	1492, 52616, 90267
C-DEELY	CONVEYORS	1652
CF-16	CRUSHER BUILDING 1	136922
CF-1	TRANSFER BUILDING 1	136922
CF-2	SOUTH RECLAIM HOPPER TO CONVEYOR 4	136922

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
CF-3	TRANSFER BUILDING 1A	136922
CF-4A	SILO GROUP A HEADHOUSE	136922
CF-5	CRUSHER BUILDING 2	136922
CF-6	NORTH RECLAIM HOPPER TO CONVEYOR 23B	136922
CF-7	TRANSFER BUILDING 4	136922
CF-8	TRANSFER BUILDING 3	136922
CF-D21	DEELY UNIT 1 CASCADES	137903
CF-D6	DEELY UNIT 2 CASCADES	137903
CF-D8	DEELY SURGE BINS	137903
CY-10A	SILICONE STORAGE TANK	106.472/09/04/2000
CY-10B	SILICONE STORAGE TANK	106.472/09/04/2000
CY-11A	TYPE 1 OIL STORAGE TANK	106.472/09/04/2000
CY-11B	TYPE 1 OIL STORAGE TANK	106.472/09/04/2000
CY-13 TK48	KEROSENE STORAGE TANK	106.472/09/04/2000
CY-13 TK49	HIGH-FLASH NAPHTHA STORAGE TANK	106.472/09/04/2000
CY-13A	KEROSENE STORAGE TANK	106.472/09/04/2000
CY-13B	HIGH-FLASH NAPHTHA STORAGE TANK	106.472/09/04/2000
CY-14	MINERAL OIL STORAGE TANK	106.472/09/04/2000
CY-15A	TYPE 1 OIL STORAGE TANK	106.472/09/04/2000
CY-15B	TYPE 1 OIL STORAGE TANK	106.472/09/04/2000
CY-16	OIL/WATER SEPARATOR	61/09/12/1989



### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
CY-18A	AMASOL OIL RESERVOIR	106.261/11/01/2003
CY-18AVT1	AMASOL OIL RESERVOIR VENT	106.261/11/01/2003
CY-18B	J-26 OIL RESERVOIR	106.261/11/01/2003
CY-18BVT1	J-26 OIL RESERVOIR VENT	106.261/11/01/2003
CY-1	J-26 OIL RESERVOIR	106.261/11/01/2003
CY-1VT1	J-26 OIL RESERVOIR VENT	106.261/11/01/2003
CY-23	AMASOL OIL RESERVOIR	106.261/11/01/2003
CY-23VT1	AMASOL OIL RESERVOIR VENT	106.261/11/01/2003
CY-2	J-26 OIL RESERVOIR	106.261/11/01/2003
CY-2VT1	J-26 OIL RESERVOIR VENT	106.261/11/01/2003
CY-38VT1	SILCONE RESERVOIR VENT	106.261/11/01/2003
CY-3A	SILICONE RESERVOIR	106.261/11/01/2003
CY-3AVT1	SILCONE RESERVOIR VENT	106.261/11/01/2003
CY-3B	SILICONE RESERVOIR	106.261/11/01/2003
CY-4	J-26 OIL STORAGE TANK	106.472/09/04/2000
CY-5	J-26 OIL RESERVOIR	106.261/11/01/2003
CY-5VT1	J-26 OIL RESERVOIR VENT	106.261/11/01/2003
CY-6 TK51	USED OIL STORAGE TANK	106.472/09/04/2000
CY-6 TK52	USED OIL STORAGE TANK	106.472/09/04/2000
CY-7 TK57	DIESEL STORAGE TANK	106.472/09/04/2000
DC-101	TRANSFER BLDG	70492, PSDTX1037

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
DC-14	TRANSFER BLDG	70492, PSDTX1037
DC-1	TRANSFER BLDG	70492, PSDTX1037
DC-201	TRANSFER BLDG	70492, PSDTX1037
DC-2	SOUTH RECLAIM BAGHOUSE	70492, PSDTX1037
DC-3	TRANSFER BLDG	70492, PSDTX1037
DC-4A/4B	COAL SILOS	70492, PSDTX1037
DC-5	CRUSHER BUILDING	70492, PSDTX1037
DC-6	RECLAIM HOPPER	70492, PSDTX1037
DC-7	TRANSFER BLDG	70492, PSDTX1037
DC-8	TRANSFER BLUIDING 3	70492, PSDTX1037
DC-CCG006	CRUSHER BUILDING 1	1652
DC-CCG008	DEELY SURGE BINS	1652
DC-CCG016	CRUSHER BUILDING 1	70492, PSDTX1037
DC-CCG021	DEELY UNIT 1 COAL SILO	1652
E-1	SOMMERS STEAM GENERATOR STACK 1	45640
E-2	SOMMERS STEAM GENERATOR STACK 2	45640
E-3	DEELY STEAM GENERATOR STACK	1491, 1492
EMGEN-1	JKS2 EMERGENCY GENERATOR 1	70492, PSDTX1037
EMGEN-2	JKS2 EMERGENCY GENERATOR 2	70492, PSDTX1037
EMGEN-AQCS	JKS1 EMERGENCY GENERATOR ENGINE 2	5/07/20/1992
EMGEN-DAM	DAM EMERGENCY GENERATOR ENGINE 1	5/07/20/1992

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
EMGEN-GATE	EMERGENCY GENERATOR ENGINE - GUARD BUILDING	106.511/09/04/2000
EMGEN-MANT	JKS1 EMERGENCY GENERATOR ENGINE1	5/07/20/1992
EMGEN-OWS1	OWS EMERGENCY GENERATOR ENGINE 1	5/12/01/1972
EMGEN-OWS2	OWS EMERGENCY GENERATOR ENGINE 2	5/12/01/1972
EMGEN-OWS3	OWS EMERGENCY GENERATOR ENGINE 3	5/12/01/1972
EMGEN-OWS4	OWS EMERGENCY GENERATOR ENGINE 4	5/12/01/1972
ETH-UNLDG	E85 ETHANOL FUEL UNLOADING	106.412/09/04/2000
ETH-UST	ETHANOL UST	106.412/09/04/2000
F-AREA1	COAL YARD EQUIP FUGITIVES	70492, PSDTX1037
F-AREA2	TRANSFER AREA FUGITIVES	70492, PSDTX1037
F-AREA3	POWER ISLAND FUGITIVES	70492, PSDTX1037
F-CCS	COAL STORAGE FUGITIVES	70492, PSDTX1037
F-GYP	GYPSUM STORAGE PILE	70492, PSDTX1037
F-LS	LIMESTONE RECEIVING & HANDLING FUGITIVES	70492, PSDTX1037
F-NH3	AQUEOUS AMMONIA FUGITIVES	70492, PSDTX1037
FUELOILLDG	DIESEL & FUEL OIL NO. 2 LOADING	106.472/09/04/2000
FUELOILUNL	DIESEL, FUEL OIL NO. 2 & KEROSENE UNLOADING	106.472/09/04/2000
G-1A	UNDERGROUND GASOLINE STORAGE TANK	14/09/13/1993
HTR-A-OWS1	VENT FOR SPACE HEATER A AT OWS UNIT 1	3/05/08/1972
HTR-B-OWS1	VENT FOR SPACE HEATER B AT OWS UNIT 1	3/05/08/1972
HTR-C-OWS1	VENT FOR SPACE HEATER C AT OWS UNIT 1	3/05/08/1972

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
HTR-D-OWS1	VENT FOR SPACE HEATER D AT OWS UNIT 1	3/05/08/1972
HTR-E-OWS1	VENT FOR SPACE HEATER E AT OWS UNIT 1	3/05/08/1972
HTR-F-OWS1	VENT FOR SPACE HEATER F AT OWS UNIT 1	3/05/08/1972
J1-10	OIL STORAGE TANK	51/07/20/1992
J1-11	OIL STORAGE TANK	51/07/20/1992
J1-1	TURBINE LUBE OIL RESERVOIR	106/07/20/1992
J1-1VT1	TURBINE LUBE OIL RESERVOIR VENT	106/07/20/1992
J1-20	TURBINE LUBE OIL STORAGE TANK	51/07/20/1992
J1-21	OIL STORAGE TANK	51/07/20/1992
J1-22	TURBINE LUBE OIL STORAGE TANK	51/07/20/1992
J1-24	DIESEL STORAGE TANK	51/07/20/1992
J1-26	DIESEL STORAGE TANK	51/07/20/1992
J1-27	DIESEL STORAGE TANK	51/07/20/1992
J1-2	TURBINE LUBE OIL STORAGE TANK	51/07/20/1992
J1-30	HIGH-FLASH NAPHTHA SOTRAGE TANK	106.472/09/04/2000
J1-31	KEROSENE STORAGE TANK	51/07/20/1992
J1-3	TURBINE LUBE OIL STORAGE TANK	51/07/20/1992
J1-4 TK3	OILY WATER STORAGE TANK	51/07/20/1992
J1-5	OIL STORAGE TANK	51/07/20/1992
J1-62	OIL/WATER SEPARATOR	61/07/20/1992
J1-63	OIL/WATER SEPARATOR	61/07/20/1992

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
J1-6	OIL STORAGE TANK	51/07/20/1992
J1-7	OIL STORAGE TANK	51/07/20/1992
J1-8	OIL STORAGE TANK	51/07/20/1992
J1-9	OIL STORAGE TANK	51/07/20/1992
J2-10	ID FAN LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-10VT1	ID FAN LUBE OIL RESERVOIR 1 VENT	106.261/11/01/2003
J2-11	ID FAN LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-11VT1	ID FAN LUBE OIL RESERVIOR 2 VENT	106.261/11/01/2003
J2-12	ID FAN LUBE OIL RESERVOIR 3	106.261/11/01/2003
J2-12VT1	ID FAN LUBE OIL RESERVOIR 3 VENT	106.261/11/01/2003
J2-13	OXIDATION AIR BLOWER LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-13VT1	VENT-OXIDATION AIR BLOWER LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-14	OXIDATION AIR BLOWER LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-14VT1	VENT-OXIDATION AIR BLOWER LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-15	PRIMARY AIR FAN LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-15VT1	VENT-PRIMARY AIR FAN LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-16	PRIMARY AIR FAN LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-16VT1	VENT-PRIMARY AIR FAN LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-17	COAL PULVERIZER LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-18	COAL PULVERIZER LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-18VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 2	106.261/11/01/2003

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
J2-19	COAL PULVERIZER LUBE OIL RESERVOIR 3	106.261/11/01/2003
J2-19VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 3	106.261/11/01/2003
J2-1	JKS2 EMERGENCY GENERATOR NO. 1 LUBE OIL RESERVOIR	106.261/11/01/2003
J2-1VT1	VENT - JKS2 EMERGENCY GENERATOR 1 LUBE OIL RESERVO	106.261/11/01/2003
J2-20	COAL PULVERIZER LUBE OIL RESERVOIR 4	106.261/11/01/2003
J2-20VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 4	106.261/11/01/2003
J2-21	COAL PULVERIZER LUBE OIL RESERVOIR 5	106.261/11/01/2003
J2-21VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 5	106.261/11/01/2003
J2-22	COAL PULVERIZER LUBE OIL RESERVOIR 6	106.261/11/01/2003
J2-22VT1	VENT-COAL PULVERIZER LUBE OIL RESERVIOR 6	106.261/11/01/2003
J2-23	RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-23VT1	VENT-RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-24	RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-24VT1	VENT-RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-25	RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 3	106.261/11/01/2003
J2-25VT1	VENT-RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 3	106.261/11/01/2003
J2-26	RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 4	106.261/11/01/2003
J2-26VT1	VENT-RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 4	106.261/11/01/2003
J2-27	RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 5	106.261/11/01/2003
J2-27VT1	VENT-RECYCLE PUMP GEARBOX LUBE OIL RESERVOIR 5	106.261/11/01/2003
J2-28	START UP BOILER FEED PUMP LUBE OIL RESERVOIR 1	106.261/11/01/2003

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
J2-28VT1	VENT-START UP BOILER FEED PUMP LUBE OIL RESERVOIR	106.261/11/01/2003
J2-29	SUBMERGED SCRAPER CONVEYOR LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-29VT1	VENT-SUBMERGED SCRAPER CONVEYOR LUBE OIL RESERVOIR	106.261/11/01/2003
J2-2	JKS2 EMERGENCY GENERATOR NO. 1 LUBE OIL RESERVOIR	106.261/11/01/2003
J2-2VT1	VENT - JKS2 EMERGENCY GENERATOR 2 LUBE OIL RESERVOIR	106.261/11/01/2003
J2-30	TURBINE BOILER FEED PUMP LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-30VT1	VENT-TURBINE BOILER FEED PUMP LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-31	TURBINE BOILER FEED PUMP LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-31VT1	VENT-TURBINE BOILER FEED PUMP LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-32	TURBINE LUBE OIL SYSTEM RESERVOIR 1	106.261/11/01/2003
J2-33	TURBINE LUBE OIL SYSTEM RESERVOIR 2	106.261/11/01/2003
J2-36	TURBINE LUBE OIL SYSTEM RESERVOIR 3	106.261/11/01/2003
J2-37	TURBINE LUBE OIL SYSTEM RESERVOIR 4	106.261/11/01/2003
J2-38	TURBINE LUBE OIL SYSTEM RESERVOIR 5	106.261/11/01/2003
J2-39	TURBINE LUBE OIL STORAGE TANK	106.472/09/04/2000
J2-3	AIR PREHEATER LUBE OIL RESERVOIR	106.261/11/01/2003
J2-3VT1	AIR PREHEATER LUBE OIL RESERVOIR VENT	106.261/11/01/2003
J2-40	TURBINE LUBE OIL STORAGE TANK	106.472/09/04/2000
J2-41	TURBINE LUBE OIL STORAGE TANK	106.472/09/04/2000
J2-4	BALL MILL LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-4VT	BALL MILL LUBE OIL RESERVOIR 1 VENT	106.261/11/01/2003

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
J2-5	BALL MILL LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-5VT1	BALL MILL LUBE OIL RESERVOIR 2 VENT	106.261/11/01/2003
J2-6	EHC SYSTEM LUBE OIL RESERVOIR 1	106.472/09/04/2000
J2-6VT1	EHC SYSTEM LUBE OIL RESERVOIR 1 VENT	106.472/09/04/2000
J2-7	FD FAN LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-7VT1	FD FAN LUBE OIL RESERVOIR 1 VENT	106.261/11/01/2003
J2-8	FD FAN LUBE OIL RESERVOIR 2	106.261/11/01/2003
J2-8VT1	FD FAN LUBE OIL RESERVOIR 2 VENT	106.261/11/01/2003
J2-9	GENERATOR SHAFT SEAL SYSTEM LUBE OIL RESERVOIR 1	106.261/11/01/2003
J2-9VT1	VENT-GENERATOR SHAFT SEAL SYSTEM LUBE OIL RESERV 1	106.261/11/01/2003
J2-TLOVT1	VENT 1 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT2	VENT 2 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT3	VENT 3 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT4	VENT 4 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT5	VENT 5 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT6	VENT 6 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT7	VENT 7 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT8	VENT 8 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
J2-TLOVT9	VENT 9 - TURBINE LUBE OIL SYSTEM	106.261/11/01/2003
JKS2-OWS1	JKS2 OILY WATER SEPARATOR 1	106.532/09/04/2000
JKS2-OWS2	JKS2 OILY WATER SEPARATOR 2	106.532/09/04/2000



### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
LDC-10	LIMESTONE SILOS BAGHOUSE	70492, PSDTX1037
LDC-12	LIMESTONE RECEIVING BAGHOUSE	70492, PSDTX1037
LDC-13	LIMESTONE TRANSFER STORAGE SILOS	70492, PSDTX1037
LFUG-CRSH	LIMESTONE BALL MILL	70492, PSDTX1037
NAPH-UNLDG	HIGH-FLASH NAPHTHA UNLOADING	106.472/09/04/2000
P-1A OWS1	SOMMERS STEAM GENERATOR UNIT 1	45640
P-2 OWS2	SOMMERS STEAM GENERATOR UNIT 2	45640
P-5 JKS1	SPRUCE STEAM GENERATOR 1	18426, PSDTX742M1
P-6	JKS BOILER #2	70492, PSDTX1037
PAINTING	MAINTENANCE PAINTING	106.261/11/01/2001
PROPANETKS	PROPANE CANISTERS	106.475/09/04/2000
PUMPFW-JKS	JKS FIREWATER PUMP ENGINE	5/04/05/1995
PUMPFW-JTD	JTD FIREWATER PUMP ENGINE	106.511/09/04/2000
PUMPFW-OWS	OWS FIREWATER PUMP ENGINE	5/12/01/1972
PW-CYG1	REMOTE RESERVOIR PARTS WASHER	106.454/11/01/2001
PW-CYG2	REMOTE RESERVOIR PARTS WASHER	106.454/11/01/2001
PW-CY	PARTS WASHER	106.454/11/01/2001
PW-JKS	PARTS WASHER	106.454/11/01/2001
PW-SD	PARTS WASHER	106.454/11/01/2001
PX-C01A/B	RAILCAR UNLOADING BAGHOUSES	70492, PSDTX1037
PX-C02	RAILCAR UNLOADING FUGITIVES	70492, PSDTX1037

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PX-C04	ROTARY PLOW	70492, PSDTX1037
PX-C16/C17	STACKER/RECLAIMER	70492, PSDTX1037
RCM-1	USED OIL STORAGE TANK	106.472/09/04/2000
RCM-2	KEROSENE STORAGE TANK	106.472/09/04/2000
RCM-3	HIGH-FLASH NAPHTHA STORAGE TANK	106.472/09/04/2000
RCM-4	TRANSFORMER MINERAL OIL STORAGE TANK	106.472/09/04/2000
RCM-5	NUTO 46 OIL RESERVOIR	106.261/11/01/2003
RCM-5VT1	NUTO 46 OIL RESERVOIR VENT	106.261/11/01/2003
RCM-6	NUTO 46 OIL RESERVOIR	106.261/11/01/2003
RCM-6VT1	NUTO 46 OIL RESERVOIR VENT	106.261/11/01/2003
RCM-7	NUTO 46 OIL RESERVOIR	106.261/11/01/2003
RCM-7VT1	NUTO 46 OIL RESERVOIR VENT	106.261/11/01/2003
SD-100	EHC FLUID RESERVOIR	57/05/05/1976
SD-100VT1	EHC FLUID RESERVOIR VENT	57/05/05/1976
SD-101	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-101VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-102	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-102VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-103	TURBINE LUBE OIL STORAGE TANK	57/05/05/1976
SD-104	EHC FLUID RESERVOIR	57/05/05/1976
SD-104VT1	EHC FLUID RESERVOIR VENT	57/05/05/1976

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SD-105	TURBINE LUBE OIL STORAGE TANK	57/05/05/1976
SD-105VT1	EHC FLUID RESERVOIR VENT	57/05/05/1976
SD-106	EHC FLUID RESERVOIR	57/05/05/1976
SD-107	EHC FLUID RESERVOIR	57/05/05/1976
SD-107VT1	EHC FLUID RESERVOIR VENT	57/05/05/1976
SD-108	DIESEL STORAGE TANK	57/09/17/1973
SD-109	DIESEL STORAGE TANK	57/09/17/1973
SD-110	LUBE OIL STORAGE TANK	58/05/08/1972
SD-111	LUBE OIL STORAGE TANK	58/05/08/1972
SD-112	TURBINE LUBE OIL STORAGE TANK	58/05/08/1972
SD-113	TURBINE LUBE OIL STORAGE TANK	58/05/08/1972
SD-114	TURBINE LUBE OIL STORAGE TANK	106.472/09/04/2000
SD-115	DIESEL STORAGE TANK	58/05/08/1972
SD-116	DIESEL STORAGE TANK	58/05/08/1972
SD-117	DIESEL STORAGE TANK	58/05/08/1972
SD-118	TURBINE LUBE OIL STORAGE TANK	57/09/17/1973
SD-119	TURBINE LUBE OIL STORAGE TANK	57/09/17/1973
SD-120	TURBINE LUBE OIL STORAGE TANK	57/09/17/1973
SD-121	EHC FLUID RESERVOIR	57/09/17/1973
SD-121VT1	EHC FLUID RESERVOIR VENT	57/09/17/1973
SD-122	TURBINE LUBE OIL RESERVOIR	106/08/30/1988

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SD-122VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-123	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-123VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-124	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-124VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-125	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-125VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-128	OIL/WATER SEPARATOR	61/11/05/1986
SD-129	OIL/WATER SEPARATOR	61/11/05/1986
SD-130	OIL/WATER SEPARATOR	61/11/05/1986
SD-14 TK2A	DIESEL STORAGE TANK	106.472/09/04/2000
SD-19	TURBINE LUBE OIL STORAGE TANK	57/12/01/1972
SD-20	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-20VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-21	KEROSENE STORAGE TANK	57/12/01/1972
SD-22	HIGH-FLASH NAPHTHA STORAGE TANK	106.472/09/04/2000
SD-23	DIESEL STORAGE TANK	57/12/01/1972
SD-24	DIESEL STORAGE TANK	57/12/01/1972
SD-25	DIESEL STORAGE TANK	57/12/01/1972
SD-26	DIESEL STORAGE TANK	57/12/01/1972
SD-27	DIESEL STORAGE TANK	57/12/01/1972

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SD-28	TURBINE LUBE OIL STORAGE TANK	57/05/05/1976
SD-29	TURBINE LUBE OIL RESERVOIR	106/08/30/1988
SD-29VT1	TURBINE LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-30	DIESEL STORAGE TANK	57/05/05/1976
SD-31 WO1	USED OIL STORAGE TANK	51/11/05/1986
SD-31 WO2	USED OIL STORAGE TANK	51/11/05/1986
SD-31 WO3	USED OIL STORAGE TANK	51/11/05/1986
SD-89	GEAR LUBE OIL STORAGE TANK	57/05/05/1976
SD-90	GEAR LUBE OIL RESERVOIR	106/08/30/1988
SD-90VT1	GEAR LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-91	GEAR LUBE OIL STORAGE TANK	57/05/05/1976
SD-92	GEAR LUBE OIL RESERVOIR	106/08/30/1988
SD-92VT1	GEAR LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-93	GEAR LUBE OIL STORAGE TANK	57/05/05/1976
SD-94	GEAR LUBE OIL RESERVOIR	106/08/30/1988
SD-94VT1	GEAR LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-95	GEAR LUBE OIL STORAGE TANK	57/05/05/1976
SD-96	GEAR LUBE OIL RESERVOIR	106/08/30/1988
SD-96VT1	GEAR LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-97	GEAR LUBE OIL STORAGE TANK	57/05/05/1976
SD-98	GEAR LUBE OIL RESERVOIR	106/08/30/1988

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SD-98VT1	GEAR LUBE OIL RESERVOIR VENT	106/08/30/1988
SD-99	EHC FLUID RESERVOIR	57/05/05/1976
SD-99VT1	EHC FLUID RESERVOIR VENT	57/05/05/1976
T-1	FUEL OIL STORAGE TANK	57/09/17/1973
T-2	FUEL OIL STORAGE TANK	57/12/01/1972
T-3	JKS2 EMERGENCY GENERATOR NO 1 DIESEL STORAGE TANKS	70492, PSDTX1037
T-4	JKS2 EMERGENCY GENERATOR NO 2 DIESEL STORAGE TANKS	70492, PSDTX1037
T-ACID	ACID STORAGE TANK	70492, PSDTX1037
T-BASE	BASE STORAGE TANK	70492, PSDTX1037
T-EMGENGT	FUEL TANK FOR EMERGENCY GENERATOR - GUARD BLDG	106.472/09/04/2000
U-5	SPRUCE STEAM GENERATOR STACK	18426, PSDTX742M1
U-6	JKS BOILER #2 STACK	70492, PSDTX1037
USED OIL LDG	USED OIL & OILY WATER LOADING	106.472/09/04/2000
WKFLUIDUNL	MISC WORKING FLUIDS UNLOADING, INCL. LUBE OIL, SEA	106.472/09/04/2000
WTCHEMUNLG	MISC WATER TREATMENT CHEMICAL UNLOADING	106.371/09/04/2000

**Appendix A**

**Acronym List ..... 166**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
CEMS .....	continuous emissions monitoring system
CFR .....	Code of Federal Regulations
COMS .....	continuous opacity monitoring system
CVS .....	closed vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MACT .....	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr .....	Million British thermal units per hour
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NESHAP .....	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PEMS .....	predictive emissions monitoring system
PM .....	particulate matter
ppmv .....	parts per million by volume
PRO .....	process unit
PSD .....	prevention of significant deterioration
psia .....	pounds per square inch absolute
SIP .....	state implementation plan
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound



**Appendix B**

**Major NSR Summary Table ..... 168**

Major NSR Summary Table

Permit Number: 18426/PSDTX742M1			Issuance Date: 04/10/2012				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (9)(10)	TPY (9)(11)	Spec. Cond.	Spec. Cond.	Spec. Cond.
A-1	Auxiliary Boiler (63.5 MMBtu/hr) (4)	NO <sub>x</sub>	8.9	4.1		12	
		CO	2.2	1.0		12	
		SO <sub>2</sub>	0.04	0.02	5	5, 12	5
		VOC	0.18	0.08		12	
		PM/PM <sub>10</sub>	0.32	0.15	5	5, 12	5
A-2	Auxiliary Boiler (63.5 MMBtu/hr) (4)	NO <sub>x</sub>	8.9	4.1		12	
		CO	2.2	1.0		12	
		SO <sub>2</sub>	0.04	0.02	5	5, 12	5
		VOC	0.18	0.08		12	
		PM/PM <sub>10</sub>	0.32	0.15	5	5, 12	5
EAD-3	Economizer Ash Load-out Trucks	PM/PM <sub>10</sub>	0.01	0.01		21	
EAS-3	Economizer Ash to Storage Silo -- Spruce 1	PM/PM <sub>10</sub>	0.08	0.09		21	
F-BA	Bottom Ash Landfill	PM	0.15	0.65		21	
		PM <sub>10</sub>	0.07	0.30		21	

Major NSR Summary Table

Permit Number: 18426/PSDTX742M1			Issuance Date: 04/10/2012				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (9)(10)	TPY (9)(11)	Spec. Cond.	Spec. Cond.	Spec. Cond.
U-5	595 MW Coal-Fired Steam Electric Generating Unit - J.K. Spruce 1 (5)	NO <sub>x</sub> (6)	2783	7315	2, 8, 10, 11, 21, 22	2, 8, 10, 11, 12, 21, 22	2, 10, 11
		CO (6)	3002	6761	10, 11, 21, 22	10, 11, 12, 21, 22	10, 11
		CO (6) (30-day rolling average)	1670	-	10, 11, 21, 22	10, 11, 12, 21, 22	10, 11
		SO <sub>2</sub>	6678	7315	2, 8, 10, 11, 21, 22	2, 8, 10, 11, 12, 21, 22	2, 10, 11
		SO <sub>2</sub> (7) (30-day rolling average)	1948	-	2, 8, 10, 11, 21, 22	2, 8, 10, 11, 12, 21, 22	2, 10, 11
		SO <sub>2</sub> (7) (3-hr rolling average)	3339	-	2, 8, 10, 11, 21, 22	2, 8, 10, 11, 12, 21, 22	2, 10, 11
		VOC	110	48	10, 21, 22	10, 12, 21, 22	10
		VOC (30-day rolling average)	11	-	10, 21, 22	10, 12, 21, 22	10
		PM/PM <sub>10</sub> (8)	167	731	2, 8, 10, 21, 22	2, 8, 10, 21, 22	2, 10
		Be	0.04	0.18	10	10, 12	10
		Pb	0.07	0.31		GC 7	
		Hg	1.15	5.04	10	10, 12	10
		HF	0.8	3.6	10	10, 12	10
		H <sub>2</sub> SO <sub>4</sub>	28.5	124.7	10	10	10

## Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>
- CO - carbon monoxide
- Be - beryllium
- HF - hydrogen fluoride
- Pb - lead
- Hg - mercury
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist

- (4) Annual emissions for Boilers A-1 and A-2 are based on an annual capacity factor of 10.5 percent. The annual capacity factor is defined as the total amount of fuel as MMBtu (HHV) consumed by the boiler divided by the total amount of fuel as MMBtu (HHV) which the boiler could have consumed if operated at maximum capacity for 8,760 hours/year.
  - (5) Also subject to the NO<sub>x</sub> and SO<sub>2</sub> emissions caps in Permit Number 70492 and PSDTX1037.
  - (6) Authorized by Standard Permit Number 52617.
  - (7) 70 percent reduction.
  - (8) As determined by EPA Reference Method 5, front half of sampling train only.
  - (9) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
  - (10) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
  - (11) Compliance with annual emission limits is based on a rolling 12-month period.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- \_\_\_\_Hrs/day \_\_\_\_Days/week \_\_\_\_Weeks/year or 8,760 Hrs/year

Major NSR Summary Table

Permit Number: 70492/PSDTX1037			Issuance Date: 08/31/2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY(4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
U-6	Spruce Power Generating Unit No. 2 8,000 MMBtu/hr	NO <sub>x</sub>	1,600	1,752	3, 7, 20, 21	3, 7, 20, 21, 26, 27, 28	3, 20, 21, 28
		CO	4,480	5,256	7, 20, 21	7, 20, 21, 26, 27, 28	20, 21, 28
		VOC	29	88	7, 20, 24	7, 20, 24, 26	20
		PM/PM <sub>10</sub> (9)	264	771	3, 7, 20, 24	3, 7, 20, 24, 26	3, 20
		PM/PM <sub>10</sub> (10)	-	525.60	3, 7, 20, 24	3, 7, 20, 24, 26	3, 20
		SO <sub>2</sub>	2,880	2,102	3, 7, 20, 21	3, 7, 20, 21, 26, 27, 28	3, 20, 21, 28
		H <sub>2</sub> SO <sub>4</sub>	44	129	7, 20, 24	7, 20, 24, 26	20
		NH <sub>3</sub>	50	66	7, 20, 24	7, 20, 24, 26	20
		HF	60	26	7, 20, 24	7, 20, 24, 26	20
		HCl	480	66	7, 20, 24	7, 20, 24, 26	20
		Pb	0.20	0.30	7, 20, 24	7, 20, 24, 26	20
		Hg	0.43	0.07	7, 20, 21, 40, 41	7, 20, 21, 26, 27, 28	20, 21, 28
U-6 and U-5 E-1, 2, 3	NO <sub>x</sub> Annual Emission Cap for: Spruce Units 1 and 2 Deely Units 1 and 2 Sommers 1 and 2 (8)	NO <sub>x</sub>	-	10,454	7, 20	7, 20, 26, 27	20
U-6 and U-5	SO <sub>2</sub> Annual Emission Cap for Spruce Unit 1 and 2 (8)	SO <sub>2</sub>	-	4,319	7, 20	7, 20, 26, 27	20
EMGEN-1	Emergency Generator 1	NO <sub>x</sub>	14.10	0.40		27	
		CO	7.70	0.20		27	
		VOC	0.90	0.03		27	
		PM/PM <sub>10</sub>	0.40	0.01		27	
		SO <sub>2</sub>	1.10	0.03		27	
EMGEN-2	Emergency Generator 2	NO <sub>x</sub>	17.60	0.50		27	
		CO	9.60	0.30		27	
		VOC	1.20	0.04		27	
		PM/PM <sub>10</sub>	0.60	0.02		27	
		SO <sub>2</sub>	1.40	0.04		27	
T-ACID	Sulfuric Acid Storage Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01		GC 7	
T-BASE	Base Storage Tank	Bases	0.01	0.01		GC 7	
F-NH <sub>3</sub>	Aqueous Ammonia Fugitives (7)	NH <sub>3</sub>	0.70	3.09	12	12, 26	

Major NSR Summary Table

Permit Number: 70492/PSDTX1037			Issuance Date: 08/31/2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY(4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
FAS3	Fly Ash Silo for Spruce Unit 1	PM	0.56	0.26		GC 7	
		PM <sub>10</sub>	0.19	0.09		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
FAS4	Fly Ash Silo for Spruce Unit 2	PM	0.72	0.35		GC 7	
		PM <sub>10</sub>	0.24	0.12		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
EAS4	Economizer Ash Silos for Spruce Unit 2	PM	0.11	0.16		GC 7	
		PM <sub>10</sub>	0.10	0.16		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
FAD3	Spruce Unit 1 Fly Ash Loadout to Trucks	PM	0.46	0.21		GC 7	
		PM <sub>10</sub>	0.11	0.05		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
FAD4	Spruce Unit 2 Fly Ash Loadout to Trucks	PM	0.46	0.29		GC 7	
		PM <sub>10</sub>	0.11	0.10		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
EAD4	Spruce Unit 2 Economizer Ash Loadout to Trucks	PM	0.01	0.01		GC 7	
		PM <sub>10</sub>	0.01	0.01		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
F-FILL	Sludge and Ash Landfill Fugitives (7)	PM	1.51	6.66		GC 7	
		PM <sub>10</sub>	0.72	3.15		GC 7	
		Pb	0.01	0.01		GC 7	
		Hg	0.01	0.01		GC 7	
F-BA-PILE	Bottom Ash Storage Pile Fugitives (7)	PM	0.15	0.65		GC 7	
		PM <sub>10</sub>	0.07	0.31		GC 7	

Major NSR Summary Table

Permit Number: 70492/PSDTX1037			Issuance Date: 08/31/2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY(4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
F-GYP	Gypsum Storage Pile Fugitives (7)	PM	0.07	0.30		GC 7	
		PM <sub>10</sub>	0.03	0.17		GC 7	
F-LS	Limestone Receiving and Handling Fugitives (7)	PM	0.01	0.01		GC 7	
		PM <sub>10</sub>	0.01	0.01		GC 7	
A-L55	Limestone Storage Pile (7)	PM	0.08	0.35		GC 7	
		PM <sub>10</sub>	0.04	0.18		GC 7	
LDC-12	Limestone Receiving Baghouse	PM	0.01	0.01		27	
		PM <sub>10</sub>	0.01	0.01		27	
LDC-13	Limestone Silo	PM	0.01	0.01	3	3	3
		PM <sub>10</sub>	0.01	0.01	3	3	3
LDC-10	Limestone Silos	PM	0.01	0.01	3	3	3
		PM <sub>10</sub>	0.01	0.01	3	3	3
F-CCS	Coal Storage Fugitives (7)	PM	9.08	39.7		GC 7	
		PM <sub>10</sub>	1.88	8.23		GC 7	
PX-COA1A/B	Railcar Number 1 Unloading and Transfer Baghouse	PM	0.01	0.02	3	3, 27	3
		PM <sub>10</sub>	0.01	0.02	3	3, 27	3
PX-CO2	Railcar No. 1 Unload Fugitives (7)	PM	0.26	0.53	3	3, 27	3
		PM <sub>10</sub>	0.05	0.11	3	3, 27	3
PX-CO4	Rotary Plow Reclaim	PM	0.35	0.43	3	3, 27	3
		PM <sub>10</sub>	0.07	0.09	3	3, 27	3
PX-C16	Stacker/Reclaim - Stackout	PM	0.86	0.72	3	3, 27	3
		PM <sub>10</sub>	0.18	0.15	3	3, 27	3
PX-C17	Stacker/Reclaim - Reclaim	PM	1.39	-	3	3, 27	3
		PM <sub>10</sub>	0.29	-	3	3, 27	3
PX-C17	Stacker/Reclaim - Bypass	PM	0.70	-	3	3, 27	3
		PM <sub>10</sub>	0.14	-	3	3, 27	3
PX-C17	Annual Emissions - Stacker/Reclaim (Reclaim/Bypass)	PM	-	1.20		GC 7	
		PM <sub>10</sub>	-	0.25		GC 7	

Major NSR Summary Table

Permit Number: 70492/PSDTX1037			Issuance Date: 08/31/2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY(4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
F-Area1	Coal Conveyor Fugitives - Coal Yard Area (7)	PM	1.44	1.41	3	3, 27	3
		PM <sub>10</sub>	0.30	0.29	3	3, 27	3
F-Area2	Coal Conveyor Fugitives - Transfer Area (7)	PM	0.43	0.47	3	3, 27	3
		PM <sub>10</sub>	0.09	0.10	3	3, 27	3
F-Area3	Coal Conveyor Fugitives - J.K. Spruce Power Island (7)	PM	0.25	0.17	3	3, 27	3
		PM <sub>10</sub>	0.05	0.03	3	3, 27	3
DC-1	Transfer Building 1	PM	0.03	0.04	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-2	South Reclaim Hopper to Conveyor 4	PM	0.15	0.12	3	3, 27	3
		PM <sub>10</sub>	0.03	0.02	3	3, 27	3
DC-3	Transfer Building 1a	PM	0.05	0.06	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-CCG016	Crusher Building 1	PM	0.30	0.60	3	3, 27	3
		PM <sub>10</sub>	0.06	0.12	3	3, 27	3
DC-4A	Silo Group A Headhouse	PM	0.03	0.03	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-4B	Silo Group A Unloading	PM	0.01	0.01	3	3, 27	3
		PM <sub>10</sub>	<0.01	<0.01	3	3, 27	3
DC-5	Crusher Building 2	PM	0.30	0.60	3	3, 27	3
		PM <sub>10</sub>	0.06	0.12	3	3, 27	3
DC-6	North Reclaim Hopper to Conveyor 23B	PM	0.15	0.12	3	3, 27	3
		PM <sub>10</sub>	0.03	0.02	3	3, 27	3
DC-7	Transfer Building 4	PM	0.01	0.01	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-14	Transfer Building 1B	PM	0.01	0.01	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-101	Unit 1 Transfer for Building 5 and Tripper Deck	PM	0.02	0.01	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-201	Unit 2 Transfer for Building 6 and Tripper Deck	PM	0.02	0.01	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3



**Major NSR Summary Table**

Permit Number: 70492/PSDTX1037			Issuance Date: 08/31/2015				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY(4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
DC-8	Transfer Building 3	PM	0.01	0.01	3	3, 27	3
		PM <sub>10</sub>	0.01	0.01	3	3, 27	3
DC-ACI2	Activated Carbon Silo Bin	PM	0.18	<0.01		GC 7	
		PM <sub>10</sub>	0.18	<0.01		GC 7	
		PM <sub>2.5</sub>	0.18	<0.01		GC 7	
T3	Emergency Generator No. 1 Fuel Tanks	VOC	0.14	0.01		GC 7	
T4	Emergency Generator No. 2 Fuel Tanks	VOC	0.14	0.01		GC 7	
MSS-Fug	Miscellaneous Site-wide Maintenance Activities (7)	NO <sub>x</sub>	0.01	0.01	37	36	
		CO	0.18	0.05	37	36	
		VOC	2.89	0.69	37	36	
		PM	22.0	3.29	37	36	
		PM <sub>10</sub>	12.8	2.37	37	36	
		PM <sub>2.5</sub>	5.8	1.67	37	36	
		SO <sub>2</sub>	0.01	0.01	37	36	
		NH <sub>3</sub>	7.67	0.01	12, 37	12, 36	

Footnotes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - NH<sub>3</sub> - ammonia
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
  - HCl - hydrogen chloride
  - HF - hydrogen fluoride
  - Hg - mercury
  - Pb - lead

- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (6) Compliance with the annual emission limits is based on a rolling 12-month period.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable condition(s) and permit application representations.
- (8) The cap becomes effective upon startup of Spruce 2 Utility Boiler.
- (9) The PM emission rate is for front and back-half condensable, for concentration of PM<sub>10</sub>.
- (10) The PM emission rate is for front-half only, excluding back-half condensable.

Bryan W. Shaw, Ph.D., *Chairman*  
Buddy Garcia, *Commissioner*  
Carlos Rubinstein, *Commissioner*  
Mark R. Vickery, P.G., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 10, 2012

MRS KIM STOKER  
ENVIRONMENTAL MANAGER  
CITY PUBLIC SERVICE BOARD  
PO BOX 1771  
SAN ANTONIO TX 78296-1771

Re: Permit Amendment Application  
Permit Numbers: 18426 and PSDTX742M1  
Spruce 1 Generating Unit  
San Antonio, Bexar County  
Regulated Entity Number: RN100217975  
Customer Reference Number: CN600129019  
Account Number: BG-0057-U

Dear Mrs. Stoker:

This is in response to your letter received January 4, 2011 and your Form PI-1 (General Application for Air Preconstruction Permits and Amendments) concerning the proposed amendment to Permit Numbers 18426 and PSDTX742M1. We understand that you propose to authorize planned maintenance, startup, and shutdown for the sources and activities identified in your application.

As indicated in Title 30 Texas Administrative Code § 116.116(b) and § 116.160 [30 TAC § 116.116(b) and § 116.160], and based on our review, Permit Numbers 18426 and PSDTX742M1 are hereby amended. This information will be incorporated into the existing permit file. Enclosed are revised special conditions pages and a maximum allowable emission rates (MAERT) table to replace those currently attached to your permit. We appreciate your careful review of the special conditions of the permit and assuring that all requirements are consistently met.

Planned maintenance, startup, and shutdown for the sources identified in your application and on the MAERT have been reviewed and included in the MAERT and specific maintenance activities are identified in the permit special conditions. Any other maintenance activities are not authorized by this permit and will need to obtain separate authorization.

You may file a **motion to overturn** with the Chief Clerk. A motion to overturn is a request for the commission to review the executive director's decision. Any motion must explain why the commission should review the executive director's decision. According to 30 TAC § 50.139, an

Mrs. Kim Stoker  
Page 2  
April 10, 2012

Re: Permit Numbers: 18426 and PSDTX742M1

action by the executive director is not affected by a motion to overturn filed under this section unless expressly ordered by the commission.

A motion to overturn must be received by the Chief Clerk within 23 days after the date of this letter. An original and 11 copies of a motion must be filed with the Chief Clerk in person, or by mail to the Chief Clerk's address on the attached mailing list. On the same day the motion is transmitted to the Chief Clerk, please provide copies to the applicant, the executive director's attorney, and the Public Interest Counsel at the addresses listed on the attached mailing list. If a motion to overturn is not acted on by the commission within 45 days after the date of this letter, then the motion shall be deemed overruled.

You may also request **judicial review** of the executive director's approval. According to Texas Health and Safety Code § 382.032, a person affected by the executive director's approval must file a petition appealing the executive director's approval in Travis County district court within 30 days after the effective date of the approval. Even if you request judicial review, you still must exhaust your administrative remedies, which includes filing a motion to overturn in accordance with the previous paragraphs.

Your cooperation in this matter is appreciated. If you need further information or have any questions, please contact Mr. Erik Hendrickson, P.E. at (512) 239-1095 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Wilson".

Michael Wilson, P.E., Director  
Air Permits Division  
Office of Air  
Texas Commission on Environmental Quality

MPW/EH/

Enclosures

Mrs. Kim Stoker  
Page 3  
April 10, 2012

Re: Permit Numbers: 18426 and PSDTX742M1

cc: Sanitarian Services Manager, Food and Environment Division, San Antonio Metropolitan  
Health District, San Antonio  
Air Section Manager, Region 13 - San Antonio

Project Number: 162465



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## AIR QUALITY PERMIT



*A PERMIT IS HEREBY ISSUED TO*  
**City Public Service**  
*AUTHORIZING THE CONTINUED OPERATION OF*  
**JK Spruce Unit No. 1 Boiler**  
*LOCATED AT* **Elmendorf, Bexar County, Texas**  
**LATITUDE 29° 18' 25" LONGITUDE 098° 19' 22"**

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code § 116.116 (30 TAC § 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify to the Office of Permitting, Remediation, and Registration the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with §§ 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC § 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. This permit may be appealed pursuant to 30 TAC § 50.139.
12. This permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
13. There may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
14. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in TCAA § 382.003(3) or violate TCAA § 382.085, as codified in the Texas Health and Safety Code. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.

PERMITS 18426 and PSD-TX-742M1

Date: November 1, 2007

For the Commission

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

### Emission Standards and Fuel Specifications

1. The total emissions of air contaminants from any of the sources shall not exceed the values stated on the attached table entitled "Emission Sources - Maximum Allowable Emission Rates." Standard Permit No. 52617 is hereby consolidated into this permit by reference. (11/07)
2. The 595 MW coal-fired boiler identified as Emission Point No. (EPN) U-5 shall comply with all requirements of Environmental Protection Agency (EPA) Regulations on Standards of Performance for New Stationary Sources promulgated for Electric Utility Generating Plants in Title 40 Code of Federal Regulations Part 60 (40 CFR 60), Subparts A and Da. (11/07)

Specifically, the facility shall comply with the 70 percent reduction requirement provided for in 40 CFR 60.43a(a)(2) and Subpart Da for sulfur dioxide independently of the 30-day and 3-hour maximum allowable pound per hour emission rates for sulfur dioxide set forth in this permit.

3. Should a permit condition be more stringent than a condition specified in the applicable New Source Performance Standards (NSPS), the permit condition shall govern and be the standard by which compliance will be demonstrated.
4. Fuel used in the Auxiliary Boilers A-1 and A-2 shall be limited to pipeline quality sweet natural gas containing no more than 0.5 grains of hydrogen sulfide and 20 grains of total sulfur per 100 dry standard cubic feet. Use of any other fuel will require an amendment to the permit. Operation of Auxiliary Boilers A-1 and A-2 shall be limited to firing not more than 58,407,300 standard cubic feet of natural gas each in any consecutive 12-month period (annual capacity factor of 10.5 percent).
5. EPN A-1 and A-2 shall comply with all requirements of 40 CFR 60, Subparts A and Dc.
6. Emissions shall not exceed 10 percent opacity (6-minute average) at the point of measurement for the utility boiler, EPN U-5, except during periods of routine maintenance, start-up, or shutdown (MSS) or as otherwise allowed by law. During periods of MSS, the opacity shall not exceed 20 percent over a six-minute period. Opacity of emissions from the ash handling facilities described on the maximum allowable emission rates table shall not exceed 10 percent (six-minute average), except for those periods described in 30 TAC Section 111.111(a)(1)(E). Compliance will be determined using Reference Method 9. Disposal of ash must be accomplished in a manner that will prevent the ash from becoming airborne. (4/12)

## SPECIAL CONDITIONS

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7. Opacity of emissions from Auxiliary Boilers A-1 and A-2 must not exceed five percent averaged over a 6-minute period, except for those periods described in 30 TAC 111, § 111.111(a)(1)(E) of Regulation I.
8. Emissions from the Spruce Unit 1 Utility Boiler exhausting through EPN U-5 shall not exceed the heat input-based performance standards identified in the table below. The heat input shall be based upon the higher heating value of the fuel. The performance standards of this permit condition shall apply at all times except during periods of routine MSS. During periods of routine MSS, the holder of this permit shall operate the Spruce Unit 1 and associated air pollution control equipment in accordance with good air pollution control practices to minimize emissions. The averaging periods identified in the table shall be the basis for continuous compliance. (4/12)

<b>Pollutant</b>	<b>Performance Standard</b>	<b>Averaging Period</b>	<b>Compliance Method</b>
Nitrogen Oxides (NO <sub>x</sub> )	0.30 lb/MMBtu	30-day roll	CEMS <sup>1</sup>
Sulfur Dioxide (SO <sub>2</sub> )	0.35 lb/MMBtu	30-day roll	CEMS <sup>1</sup>
Sulfur Dioxide (SO <sub>2</sub> )	0.60 lb/MMBtu	3-hour roll	CEMS <sup>1</sup>
Sulfur Dioxide (SO <sub>2</sub> )	1.20 lb/MMBtu	1- hour roll	CEMS <sup>1</sup>
Particulate Matter <sup>2</sup>	0.03 lb/MMBtu	Average of three one hour stack sampling runs	Stack Sample

Notes:

<sup>1</sup> CEMS - Continuous Emission Monitoring System. CEMS are subject to the requirements of Special Condition No. 11.

<sup>2</sup> Particulate Matter emission rate is for front half only as determined by EPA Reference Method 5, excluding back half condensable.

### Initial Determination of Compliance

9. Sampling ports and platform(s) shall be incorporated into the design of the steam generator stack according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the San Antonio Regional Director.
10. The holder of this permit, at his own expense, shall utilize the services of an independent contractor to perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants from EPN U-5. Sampling must be conducted in accordance with 40 CFR 60, Appendix A, Test Method 10, "Determination of Carbon



## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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Monoxide (CO) Emissions from Stationary Sources;" Method 7, "Determination of Nitrogen Oxide (NO<sub>x</sub>) Emissions from Stationary Sources;" Method 8, "Determination of Sulfur Dioxide (SO<sub>2</sub>) and Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) Mist Emissions from Stationary Sources;" Method 5, "Determination of Particulate Matter (PM) Emissions from Stationary Sources;" Method 9, "Visual Determination of Opacity from Stationary Sources;" Method 13A or 13B, "Determination of Total Fluoride Emissions from Stationary Sources;" Method 25, "Determination of Total Gaseous Non-Methane Organic Emissions as Carbon" and in accordance with 40 CFR 61, Appendix B, Test Method 101A, "Determination of Mercury (Hg) Emissions from Stationary Sources" and Test Method 104, "Determination of Beryllium (Be) Emissions from Stationary Sources." Test methods used to determine the concentration of other air contaminants to be sampled must be approved for, or any deviation from the specified test methods must be approved by, the permitting authority prior to sampling.

- A. The appropriate Texas Commission on Environmental Quality (TCEQ) San Antonio Regional Office shall be contacted as soon as testing is scheduled but not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:
1. Date for pretest meeting.
  2. Date sampling will occur.
  3. Name of firm conducting sampling.
  4. Type of sampling equipment to be used.
  5. Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit provisions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The San Antonio Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in B of this provision shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the EPA and copied to the TCEQ Regional Office.

- B. Air contaminants emitted from the Utility Boiler Stack (EPN U-5) to be tested for include (but are not limited to) opacity, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM, volatile organic compounds (VOC), Hg, Be, hydrogen fluoride (HF) and H<sub>2</sub>SO<sub>4</sub>. The permitting

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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authority may require additional testing if deemed appropriate.

- C. Sampling shall occur within 60 days after commencement of commercial operation, but not later than 180 days after initial start-up of the boiler and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ San Antonio Regional Office. Additional time to comply with the applicable requirements of 40 CFR 60 and 40 CFR 61 requires EPA approval and requests shall be submitted to the EPA and copied to the TCEQ Regional Office.
- D. The plant shall operate at maximum production rates during stack emission testing. Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates are achieved.
- E. Four copies of the final sampling report shall be forwarded within 30 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the appropriate TCEQ San Antonio Regional Office.

One copy to the appropriate local air pollution control program.

One copy to the Air Enforcement Branch, EPA, Dallas.

### **Continuous Determination of Compliance**

- 11. The holder of this permit shall install, calibrate and maintain a continuous emission monitoring system (CEMS) to measure and record the in-stack concentration of NO<sub>x</sub> (all, as in nitrogen oxide plus nitrogen dioxide), SO<sub>2</sub>, and CO from the boiler stack (EPN U-5). The holder of this permit shall also install, calibrate, and maintain a continuous opacity monitoring system (COMS) for measuring the effective opacity of emissions from the utility boiler. The COMS may be located where no interference with opacity readings will be experienced due to water droplets from the FGD system; however, the location must meet the measurement path requirements of 40 CFR 60, Appendix B, Performance Specification 1, Section 4.2. The monitoring data collected from the COMS shall be reported as effective combined opacity using the procedures contained in EPA document NO. EPA625/6.79.005, Section 4.6, pages 4-13 through 4-16. Continuous flow

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monitoring of each baghouse duct will not be required under normal operating conditions provided initial performance testing demonstrates that the flows from each baghouse at or near the location of each opacity monitor are within plus or minus 10 percent of equal flow. The CEMS and COMS shall meet the design and performance specifications, pass the field tests and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specifications No. 1 through 6, 40 CFR 60, Appendix B. The CEMS shall be zeroed and spanned daily and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR 60, Appendix B. If applicable, 40 CFR 75, Appendix A and B may be used as an alternative to 40 CFR 60, Appendix B

The monitoring data collected from the CEMS for NO<sub>x</sub>, SO<sub>2</sub> and CO shall be reduced to hourly average concentrations at least once every day using a minimum of four equally spaced data points over each one-hour period. The individual average concentrations of NO<sub>x</sub>, SO<sub>2</sub> and CO shall be reduced to units of the permit allowable emission rate in ppm, lb/MMBtu and lb/hr as appropriate at least once every week. All monitoring data and quality assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ San Antonio Regional Office in accordance with the conditions of 40 CFR 60.7(b) and (c). The data from the CEMS and COMS shall be used to demonstrate continuous compliance with the provisions of this permit. The CEMS and COMS required by this permit shall be subject to all future quality assurance requirements as they are published in the TCEQ Sampling Procedures Manual and the Federal Register.

- A. Excess emission reports for CEMS shall be submitted quarterly following the provisions of 40 CFR 60.7(c). The report must include a summary of exceedances and monitor downtime by cause. Specific reporting requirements for SO<sub>2</sub>, NO<sub>x</sub> and opacity are described in 40 CFR 60.49(a) and shall be complied with by the permittee.
- B. If applicable, each CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A and B, as an acceptable alternative to applicable parts of Special Condition 11 and 11 A. (11/07)
- C. During the initial compliance test required in Special Conditions No. 10, the holder of this permit shall demonstrate that at the allowable opacity, the allowable emission rate for Be and Hg will not be exceeded. Compliance with the opacity limitation for EPN U-5 shall be the best evidence of compliance with the allowable Be and Hg emission rates.

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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- D. During the initial compliance test required in Special Conditions No. 10, the holder of this permit shall demonstrate that at the allowable emission rate for SO<sub>2</sub>, the allowable emission rate for HF will not be exceeded. Compliance with the allowable emission rate for SO<sub>2</sub> shall be the best evidence of compliance with the allowable HF emission rate.
- E. During the initial compliance test required in Special Conditions No. 10, the holder of this permit shall demonstrate that at the allowable emission rate for CO, the allowable emission rate for VOC will not be exceeded. Compliance with the allowable emission rate for CO shall be the best evidence of compliance with the VOC allowable emission rate.

### **Recordkeeping Requirements**

- 12. The following records shall be maintained by the source at the site for a period of two years and shall be made available to the Executive Director or his designated representative upon request:
  - A. Hours of operation of Auxiliary Boilers A-1 and A-2.
  - B. Amount of fuel fired in Auxiliary Boilers A-1 and A-2 on a daily basis to ensure the 10.5 percent capacity factor authorized is not exceeded.
  - C. Monitoring and quality assurance records required by Special Conditions No. 11 in accordance with the conditions of 40 CFR 60.7(b) and (c).
- 13. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction.
- 14. The holder of this permit shall physically identify and mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows:
  - A. The facility identification numbers as submitted to the Emissions Inventory Section of the TECQ.
  - B. The EPNs as listed on the Maximum Allowable Emission Rates Table.

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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### **Routine Maintenance, Startup, and Shutdown**

15. This permit authorizes the emissions from the planned maintenance, startup, and shutdown (MSS) activities listed in Attachment A, Attachment B, or the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned MSS activities that are non-ILE planned maintenance activities that this permit authorizes to be performed. (4/12)
16. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility. (4/12)
17. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows: (4/12)
  - A. A planned cold startup of the electric generating facility (EGF), Spruce Unit 1, is defined as the period that begins with the first stage metal temperature being less than 300 degrees Fahrenheit, and a hot startup event is defined as a startup that is not a cold startup. Startup commences when the Induced Draft Fan is placed in service and is complete when the boiler is released to dispatch. A planned cold start event shall not exceed 840 minutes in duration and a hot startup event shall not exceed 480 minutes in duration. Extended startups lasting longer than either a cold or hot start duration are allowed provided the total hours of extended startups does not exceed 600 hours per unit per year.
  - B. A planned shutdown of the EGF, Spruce Unit 1, is defined as the period that commences when dispatched requests a shutdown due to market conditions or when plant personnel request a shutdown for maintenance, and ends when fuel is no longer fired. A planned shutdown event shall not exceed 360 minutes in duration.
18. When a planned maintenance activity identified in Attachment B is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable. (4/12)
19. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system. (4/12)

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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20. Vacuum trucks that are used to move liquids during planned maintenance activities shall utilize submerged loading. (4/12)
21. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows. (4/12)
  - A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
  - B. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions are measured using a CEMS, as per Special Condition No. 22A, the permit holder shall compare the pollutant's short-term (hourly) emissions during planned MSS activities as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.
  - C. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions occur through a stack, but are not measured using CEMS as per Special Condition No. 22A, the permit holder shall determine the total emissions of the pollutant through the stack that result from such non-ILE planned MSS activities in accordance with Special Condition No. 22B.
  - D. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.
    - (1) Determine the total emissions of the pollutant from such non-ILE planned MSS activities in accordance with Special Condition No. 22B.
    - (2) Once monthly emissions have been determined in accordance with Special Condition No. 21D(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned MSS activities to the annual emissions limit for the pollutant in the MAERT.
22. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 21 as follows. (4/12)
  - A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the

## SPECIAL CONDITIONS

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entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.

- B. For each pollutant not described in Special Condition No. 22A, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:

- (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
- (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
- (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
- (4) Use of parametric monitoring system (PEMS) data applicable to the facility.

23. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 60 days after issuance of the permit amendment that added such conditions. (4/12)

### **Permits by Rule and Standard Permits**

24. The following maintenance activities at the site are currently authorized by permits by rule (PBR) under 30 TAC Chapter 106. The standard permit identified below was issued under 30 TAC Chapter 116. (4/12)

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Description	PBR/Standard Permit No.
Brazing, Soldering, and Welding	106.227
Enclosed Dry Abrasive Blasting	106.263
Solvent Cleaning-Parts Degreaser	106.454
Hand-Held Equipment for Buffing, Polishing, Cutting, Drilling, Sawing, Grinding, Turning, or Machining Wood, Metal or Plastic	106.265
Standard Permit for Pollution Controls	52617

Date: April 10, 2012



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Attachment A

Permit Nos. 18426 and PSDTX742M1

Inherently Low Emitting (ILE) Planned Maintenance Activities

Planned Maintenance Activity	Emissions					
	NH <sub>3</sub> /Urea	VOC	NO <sub>x</sub>	CO	PM	SO <sub>2</sub>
Miscellaneous particulate filter maintenance <sup>1</sup>					X	
Maintenance of storage vessels storing material with vapor pressure <0.5 psia	X	X				
Catalyst handling and maintenance					X	
Water based washing		X				
Organic chemical usage, not authorized by “manual surface coating or solvent cleaning operations” or by “use and disposal of aerosol products”		X				
Boiler general maintenance <sup>2</sup>					X	
Management of sludge from pits, ponds, sumps, and water conveyances <sup>3</sup>		X				
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, PEMS.		X	X	X		X
Deslagging of boiler <sup>4</sup>		X	X	X	X	
Material handling system maintenance <sup>5</sup>					X	
Small equipment and fugitive component repair/replacement in VOC and inorganic service <sup>6</sup>	X	X				

Notes:

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1. Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.
2. Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.
3. Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, and sumps, tanks and other closed or open vessels. Materials managed include water and sludge mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.
4. Includes, but is not limited to, explosive blasting, clinker shooting, and other boiler deslagging activities; does not include dry abrasive blasting that may occur in boilers.
5. Material handling system equipment includes, but is not limited to, silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeders, hoppers, FGD sludge handling system. Materials handled include coal, ash, limestone, gypsum, mercury, and sorbents.
6. Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line NOx control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems)

SPECIAL CONDITIONS

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Attachment B

Permit Nos. 18426 and PSDTX742M1

Non-Inherently Low Emitting Planned MSS Activities

Planned Maintenance Activity	Emissions						
	EPN	NH <sub>3</sub> /Urea	VOC	NO <sub>x</sub>	CO	PM	SO <sub>2</sub>
Combustion optimization <sup>1</sup>	U-5		X	X	X	X	X
Vacuum truck solids loading <sup>2</sup>	MSSFUG <sup>4</sup>					X	
Vacuum truck solids unloading	MSSFUG <sup>4</sup>					X	
Maintenance of storage vessels storing gasoline or other material with vapor pressure >0.5 psia that requires clearing of the vessels to allow for entry of personnel	MSSFUG <sup>4</sup>	X	X				
Flue gas conditioning system maintenance - unit online	U-5	X				X	
Flue gas conditioning system maintenance fugitives - unit offline <sup>3</sup>	MSSFUG <sup>4</sup>	X				X	
NO <sub>x</sub> control device maintenance - unit online	U-5	X		X			
PM control device maintenance - unit online	U-5					X	
SO <sub>2</sub> control device maintenance - unit online	U-5						X
Smoke test of boiler	U-5			X	X	X	X
Smoke test of boiler fugitives	MSSFUG <sup>4</sup>			X	X	X	X
Use of fans during maintenance - unit offline	U-5					X	
Main unit Planned Startup and Planned Shutdown	U-5	X	X	X	X	X	X

## SPECIAL CONDITIONS

Permit Numbers 18426 and PSDTX742M1

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### Notes:

1. Includes, but is not limited to, (i) leak and operability checks (e.g., turbine over-speed tests, troubleshooting), (ii) balancing, and (iii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances.
2. Includes site-wide solids vacuuming operations (e.g., SCR, baghouse, ESP, ducts, furnace, loop seals, stripper coolers, and airlocks).
3. Includes, but is not limited to, maintenance of anhydrous ammonia systems and aqueous ammonia systems used to condition flue gas before it is controlled by a PM control device.
4. Emission point MSSFUG represents permitted site-wide MSS fugitive emissions for J.T. Deely Units 1 and 2, and Spruce Units 1 and 2. MSSFUG emissions are quantified in the maximum allowable emissions rate table in Permit No. 70492 and PSDTX1037.

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 18426 and PSDTX742M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hour (9)(10)	TPY(9)(11)
A-1	Auxiliary Boiler (63.5 MMBtu/hr) (4)	NO <sub>x</sub>	8.9	4.1
		CO	2.2	1.0
		SO <sub>2</sub>	0.04	0.02
		VOC	0.18	0.08
		PM/PM <sub>10</sub>	0.32	0.15
A-2	Auxiliary Boiler (63.5 MMBtu/hr) (4)	NO <sub>x</sub>	8.9	4.1
		CO	2.2	1.0
		SO <sub>2</sub>	0.04	0.02
		VOC	0.18	0.08
		PM/PM <sub>10</sub>	0.32	0.15
EAD-3	Economizer Ash Load-out Trucks	PM/PM <sub>10</sub>	0.01	0.01
EAS - 3	Economizer Ash to Storage Silo - Spruce 1	PM/PM <sub>10</sub>	0.08	0.09
F-BA	Bottom Ash Landfill	PM	0.15	0.65
		PM <sub>10</sub>	0.07	0.30
U-5	595 MW Coal-Fired Steam Electric Generating Unit - J.K. Spruce 1 (5)	NO <sub>x</sub> (6)	2783	7315
		CO (6)	3002	6761
		CO (6) (30-day rolling average)	1670	-
		SO <sub>2</sub>	6678	7315
		SO <sub>2</sub> (7) (30-day rolling average)	1948	-

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lbs/hour (9)(10)	TPY(9)(11)
		SO <sub>2</sub> (7) (3-hour rolling average)	3339	-
		VOC	110	48
		VOC (30-day rolling average)	11	-
		PM/PM <sub>10</sub> (8)	167	731
		Be	0.04	0.18
		Pb	0.07	0.31
		Hg	1.15	5.04
		HF	0.8	3.6
		H <sub>2</sub> SO <sub>4</sub>	28.5	124.7

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>  
 CO - carbon monoxide  
 Be - beryllium  
 HF - hydrogen fluoride  
 Pb - lead  
 Hg - mercury  
 H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- (4) Annual emissions for Boilers A-1 and A-2 are based on an annual capacity factor of 10.5 percent. The annual capacity factor is defined as the total amount of fuel as MMBtu (HHV) consumed by the boiler divided by the total amount of fuel as MMBtu (HHV) which the boiler could have consumed if operated at maximum capacity for 8,760 hours/year.
- (5) Also subject to the NO<sub>x</sub> and SO<sub>2</sub> emissions caps in Permit Number 70492 and PSDTX1037.
- (6) Authorized by Standard Permit Number 52617.
- (7) 70 percent reduction.

Emission Sources - Maximum Allowable Emission Rates

- (8) As determined by EPA Reference Method 5, front half of sampling train only.
- (9) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (10) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (11) Compliance with annual emission limits is based on a rolling 12-month period.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

\_\_\_\_Hrs/day \_\_\_\_Days/week \_\_\_\_Weeks/year or 8,760 Hrs/year

Dated: April 10, 2012



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



*A Permit Is Hereby Issued To*  
**City Public Service**  
*Authorizing the Continued Operation of*  
**Spruce Unit 2 Coal-fired Boiler**  
*Located at* **San Antonio, Bexar County, Texas**  
*Latitude* 29° 18' 32" *Longitude* -98° 19' 10"

Permits: 70492 and PSDTX1037

Issuance Date : August 31, 2015

Expiration Date: August 31, 2025

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]



6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

## **Special Conditions**

Permit Numbers 70492 and PSDTX1037

### **Emission Standards, Fuel Specifications, and Other Limitations**

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in that attached table. Compliance with the annual emission limits shall be based on throughput for a rolling 12-month year rather than the calendar year. This permit authorizes routine maintenance, startup, and shutdown (MSS) activities which comply with the emission limits in the maximum allowable emission rates table (MAERT). **(4/12)**
2. Emission limits are based upon the permit application representations dated November 2003, and subsequent submittals dated: July 2004 (Supplemental to Application), September 2004, (Air Quality Analysis), October 2004 (Air Quality Analysis Supplement), May 2007 (Amendment), and January 2011 (Amendment). **(4/12)**

### **Federal Applicability**

3. These facilities shall comply with applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations in Title 40 Code of Federal Regulations (40 CFR) Part 60 on Standards of Performance for New Stationary Sources promulgated for:
  - A. Subpart A: General Conditions.
  - B. Subpart Da: Standards of Performance for Electric Utility Steam Generating Units. (Spruce 2 Utility Boiler)
  - C. Subpart Y: Standards of Performance for New Stationary Sources for Coal Preparation Plants and Processing Plants.
  - D. Subpart OOO: Standards of Performance for Nonmetallic Mineral Processing Plants. (limestone handling facilities) **(8/09)**

### **Utility Boiler Fuel Specifications, Operating Limitations, Performance Standards, and Construction Specifications**

4. Fuel fired in the Spruce 2 Utility Boiler shall be limited to:
  - A. Low sulfur coal with a sulfur (S) content not to exceed an annual average of 0.625 pounds per million British Thermal Units (lbs/MMBtu) heat input and with the trace metal concentrations not to exceed the concentration limitation identified in Attachment C. **(4/12)**

- B. Sweet natural gas as defined in Title 30 Texas Administrative Code (30 TAC Chapter 101).
  - C. Use of any other fuel will require prior approval from the permitting authority. Upon request by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) or any air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel fired in the utility boiler or shall allow air pollution control agency representatives to obtain a sample for analysis.
5. The Spruce 2 Utility Boiler shall be limited to a maximum heat input of 8,000 MMBtu/hr, averaged over a calendar month, based on the higher heating value (HHV) of the fuel fired. **(11/07)**
6. Opacity of emission from the utility boiler must not exceed 10 percent as determined by EPA Reference Method 9 or by a continuous opacity monitoring system (COMS) as required by Special Condition No. 22 averaged over a six minute period, except during periods of routine maintenance, startup, or shutdown (MSS) or as otherwise allowed by law. During periods of MSS, the opacity shall not exceed 20 percent over a six-minute period.
7. Emissions from the Spruce 2 Utility Boiler exhausting through emission point number (EPN): U-6 shall not exceed the heat input-based performance standards identified in the table below. The heat input shall be based upon the higher heating value of the fuel. The performance standards of this permit condition shall apply at all times except during periods of routine MSS. During periods of MSS, the holder of this permit shall operate the Spruce 2 Utility Boiler and associated air pollution control equipment in accordance with good air pollution control practices to minimize emissions. The permit holder shall retain records of MSS periods in which the emission specifications identified below are exceeded and shall identify all measures taken to mitigate emissions. Initial compliance with the performance standards of this special condition shall be demonstrated in the initial determination of compliance stack sampling utilizing EPA Reference Method testing and shall be determined based upon the average of three stack sampling test runs. Continuous compliance thereafter shall be either via continuous emissions monitoring systems (CEMS) or COMS for the pollutants monitored by CEMS or COMS or via stack sampling described by Special Condition No. 24. The averaging periods identified in the table shall be the basis for continuous compliance. **(4/12)**

Pollutant	Performance Standard	Averaging Period	Compliance Method
Nitrogen Oxides (NO <sub>x</sub> )	0.069 lb/MMBtu	30-day roll	CEMS <sup>1</sup>
	0.05 lb/MMBtu	12-month roll	
Sulfur Dioxide (SO <sub>2</sub> )	0.10 lb/MMBtu	30-day roll	CEMS <sup>1</sup>
	0.06 lb/MMBtu	12-month roll	
Carbon Monoxide (CO)	0.15 lb/MMBtu	12-month roll	CEMS <sup>1</sup>
Mercury (Hg)	2E-05 lb/MWh	12-month roll	CEMS <sup>1</sup>
Opacity	10%	six minutes	COMS <sup>2</sup>
Ammonia (NH <sub>3</sub> )	0.0063 lb/MMBtu	hourly	Stack sample <sup>3</sup>
Particulate Matter, PM <sub>10</sub>	0.015 lb/MMBtu <sup>4</sup>	annual	Stack sample <sup>3</sup>
	0.022 lb/MMBtu <sup>5</sup>		
Lead (Pb)	8.4E-06 lb/MMBtu	annual	Stack sample <sup>3</sup>
Hydrogen Fluoride (HF)	0.0008 lb/MMBtu	annual	Stack sample <sup>3</sup>
Sulfuric Acid Mist (H <sub>2</sub> SO <sub>4</sub> )	0.0037 lb/MMBtu	annual	Stack sample <sup>3</sup>
Hydrogen Chloride (HCl)	0.0019 lb/MMBtu	Annual	Stack sample <sup>3</sup>
Volatile Organic Compounds (VOC)	0.0025 lb/MMBtu	Annual	Stack sample <sup>3</sup>

<sup>1</sup> CEMS are subject to the requirements of Special Condition No. 21.

<sup>2</sup> COMS are subject to the requirements of Special Condition No. 22.

<sup>3</sup> Stack sampling is the average of three stack sampling runs to be conducted as prescribed by Special Condition Nos. 20 and 24.

<sup>4</sup> Particulate Matter emission rate is for front half only excluding back half condensable.

<sup>5</sup> Particulate Matter emission rate is for front and back-half condensable, for the concentration of particulate matter less than 10 microns in diameter (PM<sub>10</sub>).

8. In the event that the Continuous Emissions Monitoring Systems (CEMS) for NO<sub>x</sub> or SO<sub>2</sub> are not operating (except when the CEMS are down for planned QA/QC procedures), the permit holder shall operate at the minimum ammonia feed rate to the selective catalytic reduction system and the minimum sorbent feed rate to the flue gas desulfurization system, or at the pH levels, that were established during a successful initial performance test (adjusted for load) or at the feed rates that were measured prior to the loss of the CEMS, which ever feed rates are higher.
9. Stack sampling ports and platform(s) shall be constructed on the stack as specified in the attachment entitled "Chapter 2, Stack Sampling Facilities," or an alternate design may be required at a later date if determined necessary by the TCEQ Regional Director. **(8/09)**

10. Emergency Generators, EPNs: EMGEN-1 and EMGEN-2, shall be limited to a maximum of 60 non-emergency hours per year and these generators shall be limited to firing distillate fuel oil containing no more than 0.1 percent sulfur by weight.

### **Ammonia (NH<sub>3</sub>) Storage**

11. The service of NH<sub>3</sub> storage tanks represented in this permit is limited to the storage of aqueous NH<sub>3</sub> only.
12. Audio, olfactory, and visual checks for NH<sub>3</sub> shall be made once per day within the operating area.
  - A. No later than one hour following detection of a leak, plant personnel shall take the following actions:
    - (1) Locate and isolate the leak.
    - (2) Use a leak collection/containment system to control the leak until repair or replacement can be made.
  - B. Within 24 hours of detection of a leak, plant personnel shall commence repair or replacement of the leaking component as appropriate.

### **Material Handling Operating Limitations and Standards**

13. Annual throughput of coal received at the Calaveras Lake site shall not exceed 15 million tons per year. Coal may be delivered at either of the two rotary car dumper buildings which shall be partially enclosed, or via trucks to the coal pile, as described in the application. **(11/07)**
14. Fugitive emissions from the transfer points on belt conveyors, any material handling, or the stockpile activities shall not create an off-property nuisance condition. A trained observer with delegation from the TCEQ may determine compliance with this special condition by EPA Reference Method 22 or equivalent. Continuous demonstration of compliance with this special condition is not required. If this condition is violated, additional controls or process changes may be required to limit visible PM emissions.
15. As determined by a certified opacity observer with delegation from the Executive Director of the TCEQ and according to EPA Reference Method 9 or equivalent, opacity of emissions from any single fabric filter baghouse stack listed in Special Condition No. 19 shall not exceed 5 percent averaged over a six-minute period. Continuous demonstration of compliance with this special condition is not required.

16. All conveyors shall be covered or enclosed to minimize fugitive particulate matter (PM) emissions except the stacker/reclaim conveyor. If visibility problems occur, additional controls may be required. Covering and enclosures are considered abatement equipment, and should be kept in good repair.
17. A watering truck and/or the coal yard watering system shall be used to minimize dust emissions from the coal storage pile area.
18. The combined active and inactive stockpiles of coal, sludge/ash landfill, and limestone stockpiles shall be limited to 55 acres, 26 acres, and 1 acre, respectively. If spontaneous combustion occurs in the coal stockpile, plant personnel will begin efforts as soon as possible to extinguish the fires, except when extinguishing stockpile fires may unduly jeopardize the safety of plant personnel and equipment or may cause the fire to spread, in which case these stockpile fires may be permitted to burn themselves out.
19. Baghouses, properly installed and in good working order, shall control PM emissions from the following emission point numbers (EPNs):

Emission Point Number	Source
FAS3	Fly Ash Silos for Spruce Unit 1
FAS4	Fly Ash Silos for Spruce Unit 2
EAS4	Economizer Ash Silo for Spruce Unit 2
LDC-12	Limestone Receiving Baghouse
LDC-13	Limestone Silo <b>(8/09)</b>
LDC-10	Limestone Silos
PX-CO1A/B	Railcar No. 1 Unloading and Transfer Baghouse
DC-1	Transfer Building 1
DC-2	South Reclaim Hopper to Conveyor 4
DC-3	Transfer Building 1a
DC-CCG016	Crusher Building 1
DC-4A	Silo Group A Headhouse
DC-4B	Silo Group A Unloading
DC-5	Crusher Building 2
DC-6	North Reclaim Hopper to Conveyor 23B
DC-7	Transfer Building 4
DC-8	Transfer Building 3 <b>(11/07)</b>
DC-14	Transfer Building 1B
DC-101	Unit 1 Transfer Building 5 and Tripper Deck
DC-201	Unit 2 Transfer Building 6 and Tripper Deck <b>(11/07)</b>

### **Initial Demonstration of Compliance**

20. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from the Spruce 2 Utility Boiler stack, EPN: U-6. Newly constructed coal handling facilities shall be tested to demonstrate compliance with 40 CFR Part 60, Subpart Y.
- A. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual, EPA Methods in 40 CFR Part 60, Appendix A and 40 CFR Part 51, Appendix M, and American Society for Testing and Materials (ASTM) as follows:
- (1) Methods 201A and 202, or Reference Methods 5, 5B, or 17, modified to include back-half condensibles, for the concentration of PM and PM<sub>10</sub>; **(11/07)**
  - (2) Reference Method 8 or Reference Methods 6 or 6c for SO<sub>2</sub>;
  - (3) Reference Method 9 for opacity (consisting of 30 six minute readings as provided in 40 CFR § 60.11[b]);
  - (4) Reference Method 10 for the concentration of CO;
  - (5) Reference Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane);
  - (6) Reference Method 7E for the concentrations of NO<sub>x</sub> and O<sub>2</sub> or equivalent methods;
  - (7) Reference Method 8 or a modified Method 8 for H<sub>2</sub>SO<sub>4</sub>;
  - (8) Reference Methods 26 or 26A for HCl and HF;
  - (9) Reference Method 29 for Total Selected Metals identified in C of this condition; and
  - (10) Reference Method 30A (Instrumental Analyzer Procedure) or 30B (Using Carbon Sorbent Traps) for Mercury from Coal-Fired Combustion Sources; or if approved by the San Antonio Regional Office: ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound, and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (also known as the Ontario Hydro Method), or other approved EPA methods. **(8/09)**

Any deviations from those procedures must be approved by the TCEQ prior to sampling. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.

- B. The TCEQ San Antonio Regional Office shall be contacted as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting. The notice shall include:
- (1) Date for pretest meeting.
  - (2) Date sampling will occur.
  - (3) Name of firm conducting sampling.
  - (4) Type of sampling equipment to be used.
  - (5) Method or procedure to be used in sampling; a copy of any ASTM test method used shall be provided. **(11/07)**
  - (6) Procedure used to determine turbine load during and after the sampling period.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. The permit holder shall present at the pretest meeting the manner in which stack sampling will be executed in order to demonstrate compliance with emission standards found in 40 CFR Part 60, Subparts Da, and Y. A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ, EPA, or ASTM sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards testing which must have the EPA approval shall be submitted to the TCEQ Austin Regional Office. **(8/09)**

- C. Air contaminants from the utility boiler stack, EPN: U-6, to be sampled and analyzed include: NO<sub>x</sub>, SO<sub>2</sub>, CO, VOC, H<sub>2</sub>SO<sub>4</sub>, HCl, HF, PM<sub>10</sub>, NH<sub>3</sub>, Pb, Hg, opacity, and total selected metals. Diluents to be measured include oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>). Total selected metals means the combination of the following metallic hazardous air pollutants: arsenic, beryllium, cadmium, chromium, lead, manganese, nickel, and selenium. Newly constructed coal handling facilities subject to 40 CFR Part 60, Subpart Y shall be tested for opacity.
- D. Sampling as required by this condition shall occur within 60 days after achieving the maximum fuel firing rate at which the new Spruce 2 Utility Boiler will be operated but no later than 180 days after initial startup.



E. Two copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

- (1) One copy to the TCEQ San Antonio Regional Office.
- (2) One copy to the TCEQ Austin Office of Air, Air Permits Division.

### **Continuous Demonstration of Compliance**

21. The holder of this permit shall install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of Hg, NO<sub>x</sub>, CO, and SO<sub>2</sub> from EPN: U-6. Diluents to be measured include O<sub>2</sub> or CO<sub>2</sub>. The continuous monitoring data shall also be used to determine compliance with the emission limitations in the attached maximum allowable emission rates table. (8/09)

- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified in the applicable Performance Specification Nos. 1 through 9, 40 CFR Part 60, Appendix B, or an acceptable alternative. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ Office of Air, Air Permits Division in Austin for requirements to be met.
- B. The holder of this permit shall assure that the CEMS meets the applicable quality assurance requirements specified in 40 CFR Part 60, Appendix F, Procedure 1, or an acceptable alternative. Relative accuracy exceedances, as specified in 40 CFR Part 60, Appendix F, § 5.2.3 and any CEMS downtime and all cylinder gas audit exceedances of  $\geq 15$  percent accuracy shall be reported semi-annually to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.
- C. The monitoring data shall be reduced to hourly average concentrations at least once each day, using a minimum of four equally spaced data points from each one hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in pounds per hour at least once each day. Pounds per hour data shall be summed on a monthly basis to tons per year (tpy) and used to determine compliance with the annual emissions limits of this permit. If the CEMS malfunctions, then the recorded concentrations may be reduced to units of the permit allowable as soon as practicable after the CEMS resumes normal operation.

- D. All required monitoring data and quality assurance data shall be maintained by the source for a period of five years and shall be made available to the TCEQ Executive Director or his designated representative upon request.
  - E. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required relative accuracy test audits (RATA) in order to provide them the opportunity to observe the testing.
  - F. If applicable, each CEMS will be required to meet the design and performance specifications, pass the field tests, and meet the installation requirements and data analysis and reporting requirements specified in the applicable performance specifications in 40 CFR Part 75, Appendix A and B, as an acceptable alternative to Special Condition 21 A, B, and E, in which case only 21 days notice to the TCEQ Regional Office is required prior to the RATA. **(11/07)**
22. The owner or operator of the facility shall install, calibrate, operate, and maintain a COMS to measure and record the opacity of emissions from the Spruce 2 Utility Boiler.
- A. The COMS may be located where no interference with opacity readings will be experienced due to water droplets from the FGD system. The COMS shall satisfy all of the Federal NSPS requirements for COMS as specified in 40 CFR Part 60, Appendix B, Performance Specification 1 (PS-1). In order to demonstrate compliance with PS-1, the COMS shall meet the manufacturer's design and performance specifications, and undergo performance evaluation testing as outlined in 40 CFR 60, Subpart A, § 60.13. The TCEQ Regional Director shall be notified 30 days prior to the certification.
  - B. The COMS shall be zeroed and spanned daily as specified in 40 CFR Part § 60.13. Corrective action shall be taken when the 24 hour span drift exceeds two times the amounts specified in PS-1, or as specified by the TCEQ if not specified in PS-1.
  - C. If the EPA promulgates a quality assurance, quality control standard for the COMS, a Quality Assurance Plan shall be prepared and maintained in accordance with the EPA standard for the COMS within six months. At the request of the TCEQ Regional Director, the holder of this permit shall submit documentation demonstrating compliance with these standards.
  - D. The data shall be reduced to six minute opacity averages, using a minimum of 36 equally-spaced data points from each six-minute period.
  - E. Data including all periods of operation, all monitoring data, and quality assurance data shall be maintained and made available on request to representatives of the TCEQ and any local air pollution program having jurisdiction, and shall be retained for at least two years following the date that the data is obtained.

- F. If the COMS exceeds greater than 5 percent downtime for the reporting quarter, the owner/operator shall develop and implement a monitor quality improvement plan. The plan should address the downtime issues to improve availability and reliability. The plan should provide additional assurance of compliance including EPA Reference Method 9 support during daytime monitor downtime periods and parametric support for nighttime monitor downtime periods.
  - G. For Special Condition No. 22A and B, the COMS shall meet the applicable requirements of 40 CFR Part 60, Appendix B, PS-1 upon certification and/or recertification where compliance is based on the regulation in effect at the time of initial certification of the system.
23. If any emission monitor fails to meet specified performance, it shall be repaired or replaced as soon as reasonably possible.
24. Compliance stack sampling for pollutants that are not monitored with a CEMS or COMS that are identified in Special Condition No. 7 shall occur once annually. If after two years of stack sampling, the average of the two stack sampling results per pollutant is below 70 percent of the performance standard identified in Special Condition No. 7, then compliance stack sampling for the specific pollutant may be conducted once every three years. If the compliance method for a pollutant changes from stack sampling to a monitoring system, the holder of this permit shall alter the permit accordingly. **(11/07)**

### **Emission Reduction and Netting**

25. The permit holder will net out of PSD review for NO<sub>x</sub> and SO<sub>2</sub>. The reduction of emissions relied upon for netting shall occur not later than the commencement of operation of the Spruce Unit 2 Utility Boiler. The permit holder will upgrade the wet limestone scrubbing system serving J.K. Spruce Unit 1 to generate SO<sub>2</sub> reductions. Upon completion of the upgrades to Spruce Unit 1, the combined SO<sub>2</sub> emissions from Spruce Unit 1 and Spruce Unit 2 shall not exceed a total of 4,319 tons per year. The permit holder will over control NO<sub>x</sub> emissions from J.T. Deely Units 1 and 2, Spruce Unit 1, and O.W. Sommers Units 1 and 2 to generate NO<sub>x</sub> reductions. The permit holder will over control NO<sub>x</sub> emissions such that the combined total emissions from J.T. Deely Units 1 and 2, Spruce Units 1 and 2, and O.W. Sommers Units 1 and 2, shall not exceed 10,454 tons per year of NO<sub>x</sub>.

### **Recordkeeping Requirements**

26. The following records shall be kept at the plant for the life of the permit. All records required in this permit shall be made available at the request of personnel from the TCEQ, the EPA, or any air pollution control agency with jurisdiction.
  - A. A copy of this permit.
  - B. Permit application dated November 2003 and subsequent representations submitted to the TCEQ.
  - C. A complete copy of the testing reports and records of the initial performance testing completed pursuant to Special Condition No. 20 to demonstrate initial compliance. (11/07)
  - D. Required stack sampling results or other air emissions testing (other than CEMS or COMS data) that may be conducted on units authorized under this permit after the date of issuance of this permit.
27. Records shall be kept for a minimum of five (5) years after collection and shall be made immediately available upon request to representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction. The most recent two (2) years shall be maintained on-site and shall be available for inspection. The remaining three (3) years of records may be maintained off site. Records shall be legible and maintained in an orderly manner. The following records shall be maintained:
  - A. Continuous emission monitoring data for opacity, SO<sub>2</sub>, Hg, NO<sub>x</sub>, CO, and diluent gases, O<sub>2</sub> or CO<sub>2</sub>, from CEMS or COMS to demonstrate compliance with the emission rates listed in the MAERT and performance standards listed in Special Condition Nos. 6 and 7 for pollutants that are monitored by CEMS or COMS. Records should identify the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, maintenance, and malfunction along with the justification for excluding data. The permit holder shall retain additional records of SSM periods in which the emission specifications identified in Special Condition No. 7 are exceeded and shall identify all measures taken to mitigate emissions. All records should also identify factors used in calculations that are used to demonstrate compliance with emissions limits and performance standards.
  - B. Raw data files of all continuous emission monitoring including calibration checks and adjustments and maintenance performed on these systems.

- C. Records of coal analysis and analysis provided by natural gas suppliers to show compliance with Special Condition No. 4A and 4B.
- D. Records of the average coal feed rate to the Spruce 2 Utility Boiler in pounds per hour and the corresponding average heat input (HHV) in MMBtu/hr, based upon an average over a calendar month, to show compliance with Special Condition No. 5. **(11/07)**
- E. Records of ammonia feed rate, sorbent feed rate, and pH established during the initial determination of compliance stack sampling to fulfill the requirements of Special Condition No. 8.
- F. Records of the hours of operation of the emergency generators to show compliance with Special Condition No. 10.
- G. Records of the coal received at Calaveras Lake site to show compliance with Special Condition No. 13.
- H. Records of cleaning and maintenance performed on abatement equipment, including records of replacement maintenance performed on baghouses and conveyors.
- I. Records of NO<sub>x</sub> and SO<sub>2</sub> emissions from other combustion units identified in Special Condition No. 25, to show compliance with the emissions cap in the MAERT and with the emissions reductions required by Special Condition No. 25.
- J. Records required to show compliance with 40 CFR Part 60, Subparts Da and Y, including records of required reporting.

## **Reporting**

- 28. The holder of this permit shall submit to the TCEQ San Antonio Regional Office and the Air Enforcement Branch of EPA in Dallas, semi-annual reports as described in 40 CFR § 60.7. Such reports are required for each emission unit which is required to be continuously monitored pursuant to this permit.

## **Optimization Studies**

- 29. If the permit holder is unable to demonstrate initial compliance with the Spruce 2 Utility Boiler performance standards for the control of NO<sub>x</sub>, Hg, H<sub>2</sub>SO<sub>4</sub>, and PM<sub>10</sub> identified in Special Condition No. 7 within the time allotted for in this permit, then the permit holder may request additional time for an emissions optimization study to mitigate emissions from the unit. Optimization studies may be requested by the permit holder to evaluate and

implement additional efforts to mitigate the emissions of NO<sub>x</sub>, Hg, H<sub>2</sub>SO<sub>4</sub>, and PM<sub>10</sub>. Exceedances of any emission limit that occur during an approved optimization study are not a violation of the emission limits set forth for NO<sub>x</sub>, Hg, H<sub>2</sub>SO<sub>4</sub>, and PM<sub>10</sub> in this permit, as long as the owner or operator maintains and operates the equipment and control equipment at all times in a manner consistent with good practice for minimizing emissions. The following conditions shall be met for the studies:

Prior to the initiation of optimization studies, a protocol shall be developed and approved by the Executive Director of the TCEQ. The protocol shall include at a minimum a proposed duration of the study period and an explanation of control efforts that will be evaluated. Additionally, the protocol will include a description of the specific testing that will be used to evaluate emissions during the optimization study. All stack testing done for this optimization study shall be coordinated with the TCEQ Regional Office.

A report summarizing the results of the optimization study shall be submitted to the TCEQ Regional Office within forty-five (45) days after the completion of the individual optimization study. This report shall include a summary of the effort utilized to mitigate emissions and the resulting emission rates measured during the study, as well as a listing of actions that will be undertaken by the permit holder to achieve the emission standard listed in Special Condition No. 7. **(11/07)**

All optimization studies shall be completed within 12 months of the initial demonstration of compliance stack testing.

### **Routine Maintenance, Startup, and Shutdown**

30. This permit authorizes the emissions from the planned MSS activities listed in Attachment A, Attachment B, or the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned MSS activities that are non-ILE planned maintenance activities that this permit authorizes to be performed. **(4/12)**
31. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility. **(4/12)**
32. Emissions during planned startup and shutdown activities will be minimized by limiting the duration of operation in planned startup and shutdown mode as follows: **(4/12)**
  - A. A planned cold startup of the electric generating facility (EGF), Spruce Unit 2, is defined as the period that begins with the impulse metal temperature being less than 300 degrees Fahrenheit, and a hot startup event is defined as a startup that is not a

cold startup. Startup commences when the Induced Draft Fan is placed in service and is complete when the boiler is released to dispatch. A planned cold start event shall not exceed 840 minutes in duration and a hot startup event shall not exceed 480 minutes in duration. Extended startups lasting longer than either a cold or hot start duration are allowed provided the total hours of extended startups does not exceed 600 hours per unit per year.

- B. A planned shutdown of the EGF, Spruce Unit 2, is defined as the period that commences when dispatched requests a shutdown due to market conditions or when plant personnel request a shutdown for maintenance, and ends when fuel is no longer fired. A planned shutdown event shall not exceed 360 minutes in duration.
- 33. When a planned maintenance activity identified in Attachment B is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable. **(4/12)**
  - 34. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system. **(4/12)**
  - 35. Vacuum trucks that are used to move liquids during planned maintenance activities shall utilize submerged loading. **(4/12)**
  - 36. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows. **(4/12)**
    - A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
    - B. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions are measured using a CEMS, as per Special Condition No. 37A, the permit holder shall compare the pollutant's short-term (hourly) emissions during planned MSS activities as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.
    - C. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions occur through a stack, but are not measured using CEMS as per Special Condition No. 37A, the permit holder shall determine the total emissions of

the pollutant through the stack that result from such non-ILE planned MSS activities in accordance with Special Condition No. 37B.

- D. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.
    - (1) Determine the total emissions of the pollutant from such non-ILE planned MSS activities in accordance with Special Condition No. 37B.
    - (2) Once monthly emissions have been determined in accordance with Special Condition No. 36D(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned MSS activities to the annual emissions limit for the pollutant in the MAERT.
37. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 36 as follows. **(4/12)**
- A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.
  - B. For each pollutant not described in Special Condition No. 37A, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:
    - (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
    - (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.



- (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
  - (4) Use of parametric monitoring system (PEMS) data applicable to the facility.
38. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 60 days after issuance of the permit amendment that added such conditions. **(4/12)**

**Permits by Rule and Standard Permits**

39. The following maintenance activities at the site are currently authorized by permits by rule (PBR) under 30 TAC Chapter 106.

Description	Authorization
Brazing, Soldering, and Welding	106.227
Enclosed Dry Abrasive Blasting	106.263
Solvent Cleaning-Parts Degreaser	106.454
Hand-Held Equipment for Buffing, Polishing, Cutting, Drilling, Sawing, Grinding, Turning, or Machining Wood, Metal or Plastic	106.265

**Provisional Special Conditions (4/12)**

40. The permit holder shall comply with a mercury performance standard of 0.00008 lbs/MWh on a 12-month rolling average starting April 2012 as measured by the CEMS.
41. The mercury performance standard of 0.00002 lbs/MWh set forth in Special Condition No. 7 shall apply starting July 31, 2013.

Date: April 30, 2012

## Attachment A

Permit Numbers 70492 and PSDTX1037

Inherently Low Emitting (ILE) Planned Maintenance Activities						
Planned Maintenance Activity	Emissions					
	NO <sub>x</sub>	CO	VOC	PM	SO <sub>2</sub>	NH <sub>3</sub> /Urea
Miscellaneous particulate filter maintenance <sup>1</sup>				X		
Maintenance of storage vessels storing material with vapor pressure <0.5 psia			X			X
Catalyst handling and maintenance				X		
Water based washing			X			
Organic chemical usage, not authorized by “manual surface coating or solvent cleaning operations” or by “use and disposal of aerosol products”			X			
Boiler general maintenance <sup>2</sup>				X		
Management of sludge from pits, ponds, sumps, and water conveyances <sup>3</sup>			X			
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, PEMS.	X	X	X			X
Deslagging of boiler <sup>4</sup>	X	X	X	X		
Material handling system maintenance <sup>5</sup>				X		
Small equipment and fugitive component repair/replacement in VOC and inorganic service <sup>6</sup>				X		X

Date: April 10, 2012

<sup>1</sup> Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.

<sup>2</sup> Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.

<sup>3</sup> Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, and sumps, tanks and other closed or open vessels. Materials managed include water and sludge mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

<sup>4</sup> Includes, but is not limited to, explosive blasting, clinker shooting, and other boiler deslagging activities; does not include dry abrasive blasting that may occur in boilers.

<sup>5</sup> Material handling system equipment includes, but is not limited to, silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeders, hoppers, FGD sludge handling system. Materials handled include coal, ash, limestone, gypsum, mercury, and sorbents.

<sup>6</sup> Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line NO<sub>x</sub> control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems)

## Attachment B

Permit Numbers 70492 and PSDTX1037

Non-Inherently Low Emitting Planned MSS Activities							
Planned Maintenance Activity	EPN	Emissions					
		NO <sub>x</sub>	CO	VOC	PM	SO <sub>2</sub>	NH <sub>3</sub> /Urea
Combustion optimization <sup>7</sup>	U-6	X	X	X	X	X	
Vacuum truck solids loading <sup>8</sup>	MSSFUG <sup>10</sup>				X		
Vacuum truck solids unloading	MSSFUG <sup>10</sup>				X		
Maintenance of storage vessels storing gasoline or other material with vapor pressure >0.5 psia that requires clearing of the vessels to allow for entry of personnel	MSSFUG <sup>10</sup>			X			X
Flue gas conditioning system maintenance - unit online	U-6				X		X
Flue gas conditioning system maintenance fugitives - unit offline <sup>9</sup>	MSSFUG <sup>10</sup>				X		X
NO <sub>x</sub> control device maintenance - unit online	U-6	X					X
PM control device maintenance - unit online	U-6				X		
SO <sub>2</sub> control device maintenance - unit online	U-6						X
Smoke test of boiler	U-6	X	X		X	X	
Smoke test of boiler fugitives	MSSFUG <sup>10</sup>	X	X		X	X	
Use of fans during maintenance - unit offline	U-6				X		
Main unit Planned Startup and Planned Shutdown	U-6	X	X	X	X	X	X

Date: April 10, 2012

<sup>7</sup> Includes, but is not limited to, (i) leak and operability checks (e.g., turbine over-speed tests, troubleshooting), (ii) balancing, and (iii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances.

<sup>8</sup> Includes site-wide solids vacuuming operations (e.g., SCR, baghouse, ESP, ducts, furnace, loop seals, stripper coolers, and airlocks).

<sup>9</sup> Includes, but is not limited to, maintenance of anhydrous ammonia systems and aqueous ammonia systems used to condition flue gas before it is controlled by a PM control device.

<sup>10</sup> Emission point MSSFUG represents permitted site-wide MSS fugitive emissions for J.T. Deely Units 1 and 2, and Spruce Units 1 and 2. MSSFUG emissions are quantified in the maximum allowable emissions rate table in Permit No. 70492 and PSDTX1037.

## Attachment C

Permit Numbers 70492 and PSDTX1037

Trace Metal Concentrations	
Constituent	Maximum Concentration (ppmw)
Mercury	0.49
Beryllium	6.3
Lead	11.55
Arsenic	9.45
Cadmium	4.52
Vanadium	326
Nickel	47.3
Silver	2.64
Barium	1019
Chromium	77.7
Cobalt	42.0
Manganese	158.0
Antimony	5.25
Selenium	5.3
Zinc	231.00

Date: April 10, 2012

# Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 70492 and PSDTX1037

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
U-6	Spruce Power Generating Unit No. 2 8,000 MMBtu/hr	NO <sub>x</sub>	1,600	1,752
		CO	4,480	5,256
		VOC	29	88
		PM/PM <sub>10</sub> (9)	264	771
		PM/PM <sub>10</sub> (10)	-	525.60
		SO <sub>2</sub>	2,880	2,102
		H <sub>2</sub> SO <sub>4</sub>	44	129
		NH <sub>3</sub>	50	66
		HF	60	26
		HCl	480	66
		Pb	0.20	0.30
		Hg	0.43	0.07
U-6 and U-5 E-1, 2, 3	NO <sub>x</sub> Annual Emission Cap for: Spruce Units 1 and 2 Deely Units 1 and 2 Sommers 1 and 2 (8)	NO <sub>x</sub>	-	10,454
U-6 and U-5	SO <sub>2</sub> Annual Emission Cap for Spruce Unit 1 and 2 (8)	SO <sub>2</sub>	-	4,319
EMGEN-1	Emergency Generator 1	NO <sub>x</sub>	14.10	0.40
		CO	7.70	0.20
		VOC	0.90	0.03
		PM/PM <sub>10</sub>	0.40	0.01
		SO <sub>2</sub>	1.10	0.03

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
EMGEN-2	Emergency Generator 2	NO <sub>x</sub>	17.60	0.50
		CO	9.60	0.30
		VOC	1.20	0.04
		PM/PM <sub>10</sub>	0.60	0.02
		SO <sub>2</sub>	1.40	0.04
T-ACID	Sulfuric Acid Storage Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
T-BASE	Base Storage Tank	Bases	0.01	0.01
F-NH <sub>3</sub>	Aqueous Ammonia Fugitives (7)	NH <sub>3</sub>	0.70	3.09
FAS3	Fly Ash Silo for Spruce Unit 1	PM	0.56	0.26
		PM <sub>10</sub>	0.19	0.09
		Pb	0.01	0.01
		Hg	0.01	0.01
FAS4	Fly Ash Silo for Spruce Unit 2	PM	0.72	0.35
		PM <sub>10</sub>	0.24	0.12
		Pb	0.01	0.01
		Hg	0.01	0.01
EAS4	Economizer Ash Silos for Spruce Unit 2	PM	0.11	0.16
		PM <sub>10</sub>	0.10	0.16
		Pb	0.01	0.01
		Hg	0.01	0.01
FAD3	Spruce Unit 1 Fly Ash Loadout to Trucks	PM	0.46	0.21
		PM <sub>10</sub>	0.11	0.05
		Pb	0.01	0.01

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
FAD3	Spruce Unit 1 Fly Ash Loadout to Trucks	Hg	0.01	0.01
FAD4	Spruce Unit 2 Fly Ash Loadout to Trucks	PM	0.46	0.29
		PM <sub>10</sub>	0.11	0.10
		Pb	0.01	0.01
		Hg	0.01	0.01
EAD4	Spruce Unit 2 Economizer Ash Loadout to Trucks	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		Pb	0.01	0.01
		Hg	0.01	0.01
F-FILL	Sludge and Ash Landfill Fugitives (7)	PM	1.51	6.66
		PM <sub>10</sub>	0.72	3.15
		Pb	0.01	0.01
		Hg	0.01	0.01
F-BA-PILE	Bottom Ash Storage Pile Fugitives (7)	PM	0.15	0.65
		PM <sub>10</sub>	0.07	0.31
F-GYP	Gypsum Storage Pile Fugitives (7)	PM	0.07	0.30
		PM <sub>10</sub>	0.03	0.17
F-LS	Limestone Receiving and Handling Fugitives (7)	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
A-L55	Limestone Storage Pile (7)	PM	0.08	0.35
		PM <sub>10</sub>	0.04	0.18
LDC-12	Limestone Receiving Baghouse	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
LDC-13	Limestone Silo	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
LDC-10	Limestone Silos	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
F-CCS	Coal Storage Fugitives (7)	PM	9.08	39.7
		PM <sub>10</sub>	1.88	8.23
PX-COA1A/B	Railcar Number 1 Unloading and Transfer Baghouse	PM	0.01	0.02
		PM <sub>10</sub>	0.01	0.02
PX-CO2	Railcar No. 1 Unload Fugitives (7)	PM	0.26	0.53
		PM <sub>10</sub>	0.05	0.11
PX-CO4	Rotary Plow Reclaim	PM	0.35	0.43
		PM <sub>10</sub>	0.07	0.09
PX-C16	Stacker/Reclaim - Stackout	PM	0.86	0.72
		PM <sub>10</sub>	0.18	0.15
PX-C17	Stacker/Reclaim - Reclaim	PM	1.39	-
		PM <sub>10</sub>	0.29	-
PX-C17	Stacker/Reclaim - Bypass	PM	0.70	-
		PM <sub>10</sub>	0.14	-
PX-C17	Annual Emissions -Stacker/Reclaim (Reclaim/Bypass)	PM	-	1.20
		PM <sub>10</sub>	-	0.25
F-Area1	Coal Conveyor Fugitives - Coal Yard Area (7)	PM	1.44	1.41
		PM <sub>10</sub>	0.30	0.29



## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
F-Area2	Coal Conveyor Fugitives - Transfer Area (7)	PM	0.43	0.47
		PM <sub>10</sub>	0.09	0.10
F-Area3	Coal Conveyor Fugitives - J.K. Spruce Power Island (7)	PM	0.25	0.17
		PM <sub>10</sub>	0.05	0.03
DC-1	Transfer Building 1	PM	0.03	0.04
		PM <sub>10</sub>	0.01	0.01
DC-2	South Reclaim Hopper to Conveyor 4	PM	0.15	0.12
		PM <sub>10</sub>	0.03	0.02
DC-3	Transfer Building 1a	PM	0.05	0.06
		PM <sub>10</sub>	0.01	0.01
DC-CCG016	Crusher Building 1	PM	0.30	0.60
		PM <sub>10</sub>	0.06	0.12
DC-4A	Silo Group A Headhouse	PM	0.03	0.03
		PM <sub>10</sub>	0.01	0.01
DC-4B	Silo Group A Unloading	PM	0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
DC-5	Crusher Building 2	PM	0.30	0.60
		PM <sub>10</sub>	0.06	0.12
DC-6	North Reclaim Hopper to Conveyor 23B	PM	0.15	0.12
		PM <sub>10</sub>	0.03	0.02
DC-7	Transfer Building 4	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour (4)(5)	TPY (4)(6)
DC-14	Transfer Building 1B	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
DC-101	Unit 1 Transfer for Building 5 and Tripper Deck	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
DC-201	Unit 2 Transfer for Building 6 and Tripper Deck	PM	0.02	0.01
		PM <sub>10</sub>	0.01	0.01
DC-8	Transfer Building 3	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
DC-ACI2	Activated Carbon Silo Bin	PM	0.18	<0.01
		PM <sub>10</sub>	0.18	<0.01
		PM <sub>2.5</sub>	0.18	<0.01
T3	Emergency Generator No. 1 Fuel Tanks	VOC	0.14	0.01
T4	Emergency Generator No. 2 Fuel Tanks	VOC	0.14	0.01
MSS-Fug	Miscellaneous Site-wide Maintenance Activities (7)	NO <sub>x</sub>	0.01	0.01
		CO	0.18	0.05
		VOC	2.89	0.69
		PM	22.0	3.29
		PM <sub>10</sub>	12.8	2.37
		PM <sub>2.5</sub>	5.8	1.67
		SO <sub>2</sub>	0.01	0.01
		NH <sub>3</sub>	7.67	0.01

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)

VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO <sub>x</sub>	-	total oxides of nitrogen
SO <sub>2</sub>	-	sulfur dioxide
PM	-	total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	-	total particulate matter equal to or less than 10 microns in diameter, including PM <sub>2.5</sub> , as represented
PM <sub>2.5</sub>	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
NH <sub>3</sub>	-	ammonia
H <sub>2</sub> SO <sub>4</sub>	-	sulfuric acid
HCl	-	hydrogen chloride
HF	-	hydrogen fluoride
Hg	-	mercury
Pb	-	lead
- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (6) Compliance with the annual emission limits is based on a rolling 12-month period.
- (7) Emission rate is an estimate and is enforceable through compliance with the applicable condition(s) and permit application representations.
- (8) The cap becomes effective upon startup of Spruce 2 Utility Boiler.
- (9) The PM emission rate is for front and back-half condensable, for concentration of PM<sub>10</sub>.
- (10) The PM emission rate is for front-half only, excluding back-half condensable.

Date: April 30, 2012